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PERSONAL.

Mr. Harvey Cockell, Superintendent of Water-Works at Columbus, O., has resigned.

Mr. William F. Miller has resigned as Engineer in charge of the filtration works at Pittsburg, Pa.

Mr. E. O. Reeder has been appointed Assistant Chief Engineer of the Chicago, Milwaukee & St. Paul Ry.

Mr. A. C. Freeman, a Civil Engineer of the Pennsylvania R. R., has resigned to accept a position with the Carnegie Steel Co.

Mr. Edwin Duryea, Jr., M.Am.Soc.C.E., has been appointed by District Attorney Philbin, of New York city, to inspect the Brooklyn Bridge.

Messrs. Edwin F. Dwelley and Isaac K. Harris, who have formerly carried on a business as Civil Engineers at 59 Exchange St., Lynn, Mass., have dissolved partnership.

Mr. F. M. Smith, formerly Chief Engineer of the Albany & Hudson Ry. & Power Co., has been appointed Resident Engineer of the Hazelton & Wilkesbarre R. R. at Hazelton, Pa.

Mr. Lester V. Street, who has been in the Civil Engineering Department of the Chicago, Milwaukee & St. Paul Ry., has accepted a position with the Atchison, Topeka & Santa Fe R. R.

Mr. Timothy M. Coughlan, formerly of the staff of Engineering News, and recently returned from the Philippine Islands, has been commissioned Second Lieutenant of Cavalry, U. S. Army.

Mr. D. M. Duller has accepted the position of Construction Engineer with the Rose Hill Sugar Co., of Abbeville, La., for a branch railway the company will build from Abbeville to its refinery, six miles south.

Mr. L. Trudeau, Roadmaster of the Montreal Street Ry., has resigned to accept the position of Superintendent of the electric car service at Bordeaux, France. Mr. Trudeau has been in the employ of the Montreal company for 16 years.

Messrs. W. W. Oldenberg, Superintendent and Chief of Pumping Stations; Constante Bassoff, Superintendent of Water Distribution, and Paul Kildeschevsky, all of the city of Moscow, Russia, are on a visit to the United States for the purpose of studying water-works systems and machinery.

Mr. George A. Ellis, Civil Engineer, of Springfield, O., has returned from Spanish Honduras, Central America, where he has been since September last. Mr. Ellis was one of the party of eight who were at work for the Pan-American Rubber Co., of New York, opening up a road 80 miles into the interior.

Messrs. Jules Labram, Mechanical Engineer with H. Glaenzer & Perreaud; Henri Bayer, Civil Engineer with the Eastern R. R. of France, and Jean Escalla, Superintendent of the Society of French Steel Works, all of Paris, France, are visiting the United States for the purpose of studying American methods of steel manufacture.

General Gillespie, Chief of Engineers, U. S. A., has ordered the following assignments of engineer officers, as division engineers for engineering work: Col. Peter C. Hains, to the Southeast Division, which will embrace the districts with headquarters at Baltimore, Washington, D. C., Norfolk, Wilmington, N. C., Charleston, S. C., Savannah Ga., and St. Augustine, Fla.; Lieut. Col. Thomas H. Handbury, after Nov. 15, to the Central Division, which will embrace the districts with headquarters at Pittsburg, Pa., Wheeling, W. Va., Cincinnati, O., Louisville, Ky., and Chattanooga; Col. Amos Stickney, to the Western Divisions, which will embrace the district with headquarters at Nashville, Tenn., Little Rock, Ark., St. Louis, Mo., and Sioux City, Ia.; Lieut. Col. Henry M. Adams to the Gulf Division, which will embrace the districts with headquarters at Montgomery, Ala., New Orleans, La., Vicksburg, Miss., and Galveston, Tex.

OBITUARY

Mr. David E. Hill, a manufacturer of sewer pipe, died at Akron, O., on Aug. 5.

Mr. David M. McMaster, formerly a Civil Engineer, died at Bath, N. Y., on July 28 at the age of 70.

Mr. Thomas S. McNair died at Hazleton, Pa., on July 26, at the age of 77. Mr. McNair was connected with the building of the Raritan & Passaic Canal and was Assistant Division Engineer under W. F. Shunk in the building of the North Penn R. R. He later became Chief Engineer of the Hazleton R. R.

Mr. Grinnell Burt, President of the Lehigh Valley & Hudson River R. R. Co., died at his home in Warwick, N. Y., on Aug. 2 at the age of 79. With others he organized the Warwick Valley R. R. in 1859, and was its President until 1878. From then until 1882 he was President of the Wawoyanda R. R. He was afterwards President of the Pequest & Wallkill R. R., the Cincinnati, Van Wert & Michigan R. R., and other small roads.

Professor Charles Anthony Schott, a charter member of the National Academy of Science and Assistant in the Coast and Geodetic Survey, died on July 31 at his home in Washington, D. C. Professor Schott was born at Mannheim, Germany, and graduated as a Civil Engineer from the Polytechnic School at Carlsruhe in 1847. In 1848 he came to the United States and entered the service of the Coast and Geodetic Survey, being made an Assistant in 1856. He has published a number of books and was a member of various scientific societies.

Col. William E. Barrows, M. Am. Soc. M. E., President of the Welsbach Light Co., died at Haverford, Pa., on July 30. Colonel Barrows was born at Hudson, O., in 1842 and was educated at the Phillips Andover Academy. During the Civil War he rose from the ranks to Aide-de-Camp on the staff of General Meade. After the war he became an apprentice in the Lowell Machine Shop, and afterwards entered the Ivanhoe Paper Mills. Later he visited England in the employ of F. A. Leigh & Co., importers of English cotton and woolen machinery, and in 1875 he was made Assistant Treasurer of the Willimantic Linen Co., and he was finally made President of that firm. He was in succession Assistant to the President of the Pullman Car Co., representative of the New Orleans Exposition in South America and Manager of the Hinckley Locomotive Works in Boston. On the closing of these works he was appointed Manager of the Welsbach Light Co.'s factory at Gloucester, N. J., and was soon afterward elected President.

ENGINEERING SOCIETIES.

COMING MEETINGS.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
Aug. 14 to 24. Annual convention at New York and Buffalo. Secy., Ralph W. Pope, 26 Cortlandt St., New York city.

OHIO ELECTRIC LIGHT ASSOCIATION.
Aug. 20 to 22. Annual meeting at Put-in-Bay, O. Secy., J. H. Perkins, Youngstown, O.

LEAGUE OF AMERICAN MUNICIPALITIES.
Aug. 21 to 24. Annual meeting at Jamestown, N. Y. Secy., John Mac Vicar, Des Moines, Ia.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.
Aug. 24 to 31. Annual meeting at Denver, Colo. Secy., L. O. Howard, Cosmos Club, Washington, D. C.

INTERNATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS.
Sept. 2 to 4. Annual meeting at Niagara Falls, N. Y. Secy., Frank P. Foster, Corning, N. Y.

ASSOCIATION OF EDISON ILLUMINATING COMPANIES.
Sept. 10. Annual meeting at Buffalo, N. Y. Secy., Wilson S. Howell, P. O. Box 114, Newark, N. J.

EASTERN MAINTENANCE-OF-WAY ASSOCIATION.
Sept. 17 and 18. Annual meeting at Rochester, N. Y. Secy., F. C. Stowell, Ware, Mass.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 1 to 4. Annual meeting at Niagara Falls, N. Y. Secy., D. L. Fulton, Allegheny, Pa.

RAILWAY SIGNALING CLUB.
Oct. 8 and 9. Annual meeting at Buffalo, N. Y. Secy., C. O. Tilton, C., M. & St. P. Ry., W. Milwaukee, Wis.

AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 9 and 11. Annual meeting in New York city.

ROADMASTERS' AND MAINTENANCE-OF-WAY ASSOCIATION.
Oct. 15. Annual meeting at Washington, D. C. Secy., J. B. Dickson, C. & N. W. Ry., Sterling, Ill.

AMERICAN SOCIETY OF RAILROAD SUPERINTENDENTS.
Oct. 16. Annual meeting at Buffalo, N. Y. Secy., C. A. Hammond, Mount Vernon, N. Y.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.—The society will meet at the house of the American Society of Mechanical Engineers at 12 West 31st St., New York city, on Aug. 14, for registration, distribution of badges, welcome to foreign visitors, etc. The following three days will be devoted to visiting various electrical works about New York city, and on Aug. 18 the party will take a special steamboat for Albany. On the following day the Schenectady works of the General Electric Co. will be inspected and in the evening the party will take the train for Buffalo. On Aug. 20 the annual convention will be opened by an Address of Welcome by the Mayor of Buffalo. The forenoons of the four days following will be devoted to technical discussions upon the following topics: "Meters and Metering of Electric Energy"; "Electric Transmission Systems"; "A Description of the Niagara Falls Transmission Plant," by L. B. Stillwell; "The Supplying of Light and Power in Large and Small Cities"; "The Nernst Lamp," by A. J. Wurts; "Electric Railroading." The French party of engineers organized by "L'Eclairage Electrique," after the adjournment of the convention at Buffalo, will leave for Chicago on Aug. 25 and will spend the following two days there. They will then return by way of the St. Lawrence, reaching Quebec on Sept. 1. From there they will come by way of Lake Champlain and Lake George to New York, embarking for Havre on Sept. 5.

NEW PUBLICATIONS.

NEW RESERVOIR AT TRENTON, N. J.—By Chas. A. Hague, M. Am. Soc. C. E. New York: The Author. Paper; 6 × 9 ins.; pp. 22; illustrated.

This is a reprint with additional illustrations of an article that appeared in Engineering News for June 13, 1901.

THE RELATION OF THE SUBSIDING BASIN TO WATER PURIFICATION.—By Wynkoop Kiersted, M. Am. Soc. C. E. Kansas City, Mo.: The Author. Paper; 6 × 9 ins.; pp. 31; illustrated.

The author opens his pamphlet by urging the desirability of giving more attention to the possibilities of subsidence as auxiliary to both slow-sand and mechanical filtration. He then discusses coagulation and subsidence, and describes the application of the two principles at Kansas City, Mo., and, in combination with mechanical filtration, at Parkville, Mo. The first of these plants was described in Engineering News of Jan. 4, 1900, and the second in the same journal for Nov. 14, 1899.

INSTRUCTION IN MUNICIPAL GOVERNMENT IN AMERICAN EDUCATIONAL INSTITUTIONS.—Report of the National Municipal League Committee, President Thos. M. Drown, Lehigh University, Chairman. Philadelphia: National Municipal League. Paper; 6 × 9 ins.; pp. 32.

A brief abstract of the body of this report was included in our report on the last meeting of the National Municipal League, in our issue of May 16, 1901. The printed copy contains an outline of a course of study on municipal government by Prof. L. S. Rowe, of the University of Pennsylvania, and preliminary report on bibliography. The latter is scanty and not up to date. Thus, under "Municipal Ownership" the extensive report of the U. S. Department of Labor (14th annual) on "Water, Gas and Electric Light Plants under Private and Municipal Ownership" is not included, and Johnston's "Electric and Street Railway Directory" is listed as an annual publication, whereas it was superseded several years ago by two quarterly publications, one devoted to street railways, and another to electric lights, both published by another concern.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½x6 ins., 6x9 ins. and 9x12 ins.)

OIL FILTERS.—Pittsburg Gage & Supply Co., Pittsburg, Pa. Paper; 4½ × 7 ins.; pp. 23; illustrated.

In this filter the oil is first poured into a settling tank partly filled with water and heated by steam, and from the top of this tank the oil is drawn off to the filtering device, from which it passed to the storage tank.

PUNCHING PRESSES.—E. W. Bliss Co., Brooklyn, N. Y. Paper; 5 × 7 ins.; pp. 24; illustrated.

Power punching presses designed for various purposes are described in this catalogue, No. 2. Catalogue No. 3 describes "straight-sided" presses in which a frame consisting of two uprights is used instead of the "gap" frame.

MACHINE TOOLS.—Edwin Harrington, Son & Co., North 15th St. and Pennsylvania Ave., Philadelphia, Pa. Paper; 9 × 6 ins.; pp. 103; illustrated.

This is a catalogue of engine lathes, boring mills, planers, overhead hoists and tramways and other machine tools. Tables of dimensions and full descriptive matter is given.

HYDRAULIC BENDERS.—The Watson, Stillman Co., 204 East 43d St., New York city. Paper; 6 × 9 ins.; pp. 56; illustrated.

The machines described in this catalogue are hydraulic presses of various sizes and capacities, for straightening and bending rails, beams and other forms of rolled iron and steel, including shafting and plates.

AIR COMPRESSORS.—The Ingersoll-Sargent Drill Co., 26 Cortlandt St., New York city. Paper; 6 × 9 ins.; pp. 105; illustrated.

This very complete and neatly gotten up book contains a great amount of valuable information concerning air compressors manufactured by the above company and on the general subject of compressed air.

CRUSHING AND GRINDING MACHINERY.—The Sturtevant Hill Co., Harrison Sq., Boston, Mass. Paper; 6 × 9 ins.; pp. 80; illustrated.

The machinery described in this book includes jaw and rotary crushers, centrifugal rolling mills and rock emery millstones. Each type of machinery is fully illustrated by drawings, making the pamphlet especially valuable to anyone interested in this subject. Tables of dimensions and price lists are given.

LIME.—Charles Warren Co., Philadelphia, New York and Wilmington, Del. Paper; 6 × 9 ins; pp. 16; illustrated.

Under the title of "The Story of Cedar Hollow, 1750-1900," the history of this old lime-burning establishment is given in full. These famous quarries are located in Chester county, Pa., about three miles from Valley Forge; and while Cedar Hollow lime is older than the Revolution, the quarries and kilns are now developed upon modern lines, and have a capacity of 3,000 bushels of lime produced in every 24 hours. The same company furnishes crushed limestone for concrete work, which has a crushing strength of 34,540 lbs. per sq. in., as compared with 30,260 lbs. for trap rock and 40,250 lbs. for granite. The crushed stone capacity is 1,000 tons daily.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened	Work.	Place.	See Eng. News
Aug. 8.	Bridge, Ellensburg, Wash.		Aug. 1
Aug. 8.	Building additions, Bath, N. Y.		Aug. 1
Aug. 8.	Storage reservoir, Newark, N. J.		July 18
	Advertised, Eng. News, July 18, 25 and Aug. 1.		
Aug. 8.	State buildings, Abilene, Tex.		July 11
Aug. 8.	Government buildings, Washington, D.C.		July 25
Aug. 8.	Water and sewer bonds, Arnprior, Ont.		July 25
Aug. 8.	Dam, Ellensburg, Wash.		July 25
Aug. 8.	Pumping plant, Fort Greble, R. I.		July 25
	Advertised, Eng. News, July 25 and Aug. 1.		
Aug. 8.	Curbing, etc., St. Paul, Minn.		Aug. 8
Aug. 8.	Bridge, Seattle, Wash.		Aug. 8
Aug. 8.	Retaining wall, Des Moines, Ia.		Aug. 8
Aug. 9.	Bridge, Spartanburg, S. C.		Aug. 8
Aug. 9.	Bridge, Vancouver, Wash.		Aug. 8
Aug. 9.	Bridge, Kalama, Wash.		Aug. 8
Aug. 9.	Dredge boat, New Orleans, La.		Aug. 8
Aug. 9.	Plumbing and heating, Alexandria, Va.		July 25
Aug. 9.	Electric plant, Fort Hunt, Va.		July 11
	Advertised, Eng. News, July 11 to Aug. 1.		
Aug. 9.	Gas lamps, Tampa, Fla.		July 11
Aug. 9.	Paving, Des Moines, Ia.		July 25
Aug. 9.	Pier work, Wentworth county, Ont.		Aug. 1
Aug. 9.	Iron cans for waste paper, etc., New York.		Aug. 1
Aug. 10.	Sidewalks, etc., Mansfield, O.		July 25
Aug. 10.	Dynamo, boilers, etc., Terre Haute, Ind.		July 25
Aug. 10.	Macadamizing, Washington, N. J.		Aug. 1
Aug. 10.	Church, Bagley, Ia.		Aug. 1
Aug. 10.	Bridge, Terre Haute, Ind.		Aug. 1
	Advertised, Eng. News, Aug. 1 and 8.		
Aug. 10.	School, Jacksonville, Fla.		Aug. 1
Aug. 10.	Sidewalks, Washington, D. C.		July 25
	Advertised, Engineering News, July 25.		
Aug. 10.	Sewers, Endicott, N. Y.		Aug. 8
Aug. 10.	Road construction, Silver City, Idaho		Aug. 8
Aug. 10.	Bridge protection work, Ventura, Cal.		Aug. 8
Aug. 10.	Bridge, Santa Rosa, Cal.		Aug. 8
Aug. 12.	Electric plant, Doylestown, Pa.		July 25
Aug. 12.	Water and electr c plnts, Park River, N.Dak.		July 25
Aug. 12.	Paving, Wabash, Ind.		July 11
Aug. 12.	Sewer, Wabash, Ind.		July 11
Aug. 12.	Jail, Statesboro, Ga.		June 27
Aug. 12.	Removing wreck, Philadelphia, Pa.		July 18
	Advertised, Eng. News, July 18 to Aug. 8.		
Aug. 12.	Macadam, Lexington, Mo.		July 25
Aug. 12.	Grading, Des Moines, Ia.		July 25
Aug. 12.	Jail, Meridian, Miss.		Aug. 1
Aug. 12.	Paving, Indianapolis, Ind.		Aug. 8
Aug. 12.	Sewers, New Castle, Pa.		Aug. 8
Aug. 12.	Dam work, Glens Falls, N. Y.		Aug. 8
	Advertised, Engineering News, Aug. 8.		
Aug. 12.	Bridge, Colfax, Wash.		Aug. 8
Aug. 12.	Water mains, Salt Lake City, Utah		Aug. 8
Aug. 13.	Sea wall, etc., Hull, Mass.		Aug. 8
Aug. 13.	Soil excavation (w.-w.), Waterbury, Conn.		Aug. 1
	Advertised, Eng. News, Aug. 1 and 8.		
Aug. 13.	Factory, Moundville, W. Va.		Aug. 8
Aug. 13.	Steel trusses (bldgs.), Washington, D. C.		Aug. 1
	Advertised Eng. News, Aug. 1 and 8.		
Aug. 13.	Sewers, Huntington, Ind.		July 18
Aug. 13.	Macadamizing, Martinez, Cal.		July 18
Aug. 13.	Paving, Huntington, Ind.		July 18
Aug. 13.	Pumping machinery Charleston, S. C.		July 4
	Advertised, Engineering News, July 4.		
Aug. 13.	Bridge superstructure, Zanesville, O.		July 25
Aug. 13.	Canal, Seattle, Wash.		July 25
Aug. 13.	Paving, etc., Jersey City, N. J.		Aug. 8
Aug. 14.	Paving, sewers, etc., Leechburg, Pa.		Aug. 8
	Advertised, Engineering News, Aug. 8.		
Aug. 14.	Paving, Baltimore, Md.		Aug. 8
Aug. 14.	School, Springfield, Mass.		July 25
Aug. 14.	Paving, East Newark, N. J.		July 25
Aug. 14.	Fire truck, etc., Kearny, N. J.		Aug. 1
Aug. 14.	Bridge, superstructure, Cleveland, O.		Aug. 1
Aug. 14.	Bridge, Hammonton, N. J.		Aug. 1
Aug. 14.	Paving, Newark, N. J.		Aug. 1
Aug. 14.	Stand-pipe work, West Springfield, Mass.		Aug. 1
	Advertised, Engineering News, Aug. 1.		
Aug. 15.	Paving, Tampa, Fla.		July 25
Aug. 15.	Electric lighting, Chillicothe, O.		Aug. 1
Aug. 15.	Power plant, Riverside, Cal.		Aug. 1
Aug. 15.	Grain elevator, Caron, Man.		Aug. 1
Aug. 15.	Court house, Bainbridge, Ga.		Aug. 1
Aug. 15.	Cement and stone, Ft. Hancock, N. J.		Aug. 1
	Advertised Eng. News, Aug. 1 and 8.		
Aug. 15.	Water-works, etc., Knox, Ind.		July 25
Aug. 15	Power plant, York Haven, Pa.		July 11
Aug. 15.	Bridges, Valentine, Neb.		July 18
Aug. 15.	Bridge, Olivia, Minn.		Aug. 8
Aug. 15.	Paving, New Haven, Conn.		Aug. 8
Aug. 15.	Bridges (2), Indianapolis, Ind.		Aug. 8
Aug. 15.	Conduit, Washington, D. C.		Aug. 8
Aug. 15.	Cement sidewalks, Logan City, Utah		Aug. 8
Aug. 16.	Water-works, etc., Greenwood, Miss.		July 25
Aug. 17.	Paving, Marion, O.		July 25
Aug. 17.	Court house, Ortonville, Minn.		July 25
Aug. 17.	Floating derrick, Norfolk, Va.		July 18
Aug. 17.	Macadamizing, Bellefontaine, O.		Aug. 1
Aug. 17.	Sewers, Irvington, Ind.		Aug. 8
Aug. 17.	Bridge, Watseka, Ill.		Aug. 8
Aug. 19.	Steel bridges, San Jose, Cal.		Aug. 1
Aug. 19.	City buildings, Detroit, Mich.		Aug. 1
Aug. 19.	Side wall, (60,000 ft.), Wiarton, Ont.		Aug. 1
Aug. 19.	Gas plant franchise, Dayton, Ky.		July 18
Aug. 19.	Water bonds, Philadelphia, Pa.		July 18
Aug. 19.	Court house and jail, Phillippi, W.Va.		July 25
Aug. 19.	Water-works, Morton, Minn.		Aug. 8
Aug. 19.	Bridge, Rutland, Vt.		Aug. 8
	Advertised, Engineering News, Aug. 8.		
Aug. 19.	Grading, etc., West New York, N. J.		Aug. 8
Aug. 19.	Bridge and coverings (3), Blue Ridge, Ga.		Aug. 8
Aug. 20.	Paving, New York, N. Y.		Aug. 8
Aug. 20.	Railway grading, Richmond, Va.		Aug. 8
	Advertised, Eng. News, Aug. 8 and 15.		
Aug. 20.	Paving, Reno, Nev.		Aug. 8
Aug. 20.	Grain elevator, Montreal, Que.		July 25
	Advertised, Eng. News, July 25 and Aug. 1.		
Aug. 20.	Church, Dundalk, Ont.		July 18
Aug. 20.	Sea wall, National Soldiers' Home, Va.		Aug. 1
No date.	Rolling mills, etc., New York, N. Y.		Aug. 8
"	Engine, Detroit, Mich.		Aug. 8
"	Rail, Detroit, Mich.		Aug. 8
"	Paving, Austin, Tex.		July 25

RAILWAYS

ATCHISON, TOPEKA & SANTA FE.—Surveyors are at work in the vicinity of Ripley, Okla., running surveys for a line into Oklahoma and Indian Territories. H. V. Mudge, Gen. Mgr., Topeka, Kan., states that lines will be built north from Pawnee and south from Ripley. The line south from Ripley will probably be extended into Indian Territory. About 200 or 300 miles will be built in all.——E. P. Ripley, Pres., announced that a considerable sum of money will be expended in improving the recently acquired property of the Santa Fe & Grand Canyon R. R., which runs from the company's main line at Williams to a point about 11 miles from the rim of the canyon. It is intended that the name of the acquired road will be changed to the Grand Canyon R. R., and that an extension will be built to the canyon at once. President Ripley states: "A project has also been started to build an electric line skirting the rim of the canyon for a distance of 30 miles, the electricity to be generated by water motors placed at the Indian Gardens, 1,500 ft. below the rim of the canyon. Plans for such a line have been prepared and submitted to a construction company, and it is probable that the Santa Fe will in time approve of the project. At present the accommodations for visitors are not as good as they might be."

ALBUQUERQUE EASTERN.—Incorporation papers were filed on July 22 at Santa Fe, N. Mex. The company is capitalized at $1,200,000, and intends building a railway 45 miles long from Albuquerque, N. Mex., to the San Pedro coalfields, six miles from San Pedro, to connect there with the proposed Santa Fe Central Ry. The road will run through the Tijeras Canyon. John T. McLaughlin, San Pedro; Joseph E. Saint, Albuquerque, and Chas. W. Dudro, Santa Fe, are incorporators.

ATLANTIC COAST LINE.—Bids are asked until Aug. 20 for grading two miles of this road in Chesterfield county, Va., as described in our advertising columns. E. T. D. Myers, Gen. Supt., Richmond, Va.

ATLANTIC, VALDOSTA & WESTERN.—Work has begun on the construction of the new terminal extension on the St. Johns River from Catherine St., Jacksonville, to Hogan, a distance of 4½ miles.

BLACK HILLS & FORT PIERRE.—This road has been purchased by the Chicago, Burlington & Quincy Ry., running between Lead, S. Dak., and Piedmont, with side spurs, having a total length of 60 miles. The purchasers will, it is said, put on the third rail immediately between Englewood and Lead, S. Dak. The third rail will also be put on between Englewood and Kirk, on the main line, which will complete the narrow gage road from the Galena district to Deadwood.

BRUCE MINES & ALGONIA.—Bids are reported wanted for building 14.5 miles of road for this company. Plans may be seen at the office of the chief engineer, Bruce Mines, Ont. A. S. Burrows, Mgr. Dir., Bruce Mines.

CALIFORNIA RIVER & GULF.—This company, organized in Los Angeles, Cal., has filed a trust deed to secure a $50,000 bond issue. The proposed road will run through Yuma. Henry Vanderleck, Pres.

CANADIAN PACIFIC.—Engineers are said to be in the field surveying a line north from Labelle, Que., which will follow the Range River to Lake Nominique and thence across to the River Lieore. W. F. Tye, Engr. of Construction, Toronto, Ont.

CARROLLTON SHORT LINE.—John T. Cochrane, Pres., Tuskaloosa, Ala., is reported to be actively engaged in promoting an extension of this line to the Tombigbee River, a distance of 16 miles.

CHICAGO GREAT WESTERN.—The surveys for the Omaha and Sioux City extensions have been completed, and work will begin on the approval of President Stickney. According to the survey, the Sioux City branch will pass through Webster, Calhoun, Sac, Ida and Woodbury counties, and the Omaha branch will pass through Webster, Calhoun, Carroll, Shelby and Pottawattamie counties.

CHICAGO, MILWAUKEE & ST. PAUL.—Work has commenced on the improvements to the River Division, which will cost about $1,000,000. Most of the work lies between St. Paul and La Crosse, and consists of track betterments, such as straightening of curves and the reduction of grades. The company's engineers have laid out a comprehensive plan, which practically means the straightening of all the important curves along the Mississippi River for a distance of about 150 miles. Construction of this character will be in progress shortly at more than 20 points. The new embankments will be widened sufficiently to allow double tracking when it becomes necessary. D. J. Whittemore, Ch. Engr., Chicago.

CHICAGO NORTHWESTERN.—Grading on the Moville extension from Moville, Ill., to Sargent's Bluffs, Ia., 30 miles, has been started. Winston Bros., contractors, Minneapolis, Minn., are doing the work, and expect to finish by Nov. 15. W. W. Geffin, Res. Engr., Moville.

CHOCTAW CONSTRUCTION CO.—This company has filed incorporation papers in Missouri, with a capital stock of $5,000,000. It will build a line of railway from a point in northern Arkansas across the Indian Territory, along the Red River and through to Lopichita Falls, Tex., running through a rich farming country. The company's headquarters will probably be at East St. Louis, Ill. John Scullin, B. B. Graham and Isaac W. Morton are incorporators. Mr. Morton has stated as follows: "We have gone into this enterprise as an investment purely and it has no connection with any other line. We think the territory pierced to be a rich one. Many important systems will be crossed. It is a St. Louis enterprise and the directors are getting together as often as possible to keep things moving."

CHOCTAW, OKLAHOMA & GULF.—Announcement has been made that 22 miles of the Little Rock & Hat Springs Western Ry. from Little Rock, Ark., to Benton, has been acquired; also that an extension to Malvern will be made to connect with the "Diamond Joe" road to Hot Springs.

CINCINNATI, RICHMOND & MUNCIE.—This company has been granted a 25-year franchise for its road through Marion, Ind. The road will be elevated, and will have overhead crossings.

CLARION & SUMMERVILLE.—The contract for the construction of this road, to run from the Pennsylvania R. R. at Summerville, Pa., to Clarion, a distance of 16 miles, is reported to have been let on July 25. The line will pass through a district rich in fine clay, limestone, hardwood timber and dairy product, and will cost $250,000, exclusive of equipment. J. C. Whitla, Pres., Beaver Falls, Pa.

COLORADO SOUTHERN.—Reports state that this company is considering the proposition of building a branch road this season to tap the country between Condon and Fossil, in Gilliam and Wheeler counties, Ore. The plan under consideration contemplates a branch from the main line at Guthrie Station to the John Day River, a distance of 15 miles. A preliminary survey has been made. E. E. Lytle, Pres.

EAST JORDAN & SOUTHERN.—Incorporated in Michigan for the purpose of building and operating a road from East Jordan to Bellaire, a distance of 20 miles. The company is capitalized at $250,000. Chas. Ames, Oak Park, Ill.; Wm. P. Porter and Geo. H. Frost, of East Jordan, Mich., are incorporators.

DES MOINES, IOWA CITY & EASTERN.—Surveys are being made for this line from Iowa City east. The road will cross the river at Davenport or Muscatine. The road will effect a junction with the B. & O. R. R.

EL PASO & SOUTHWESTERN.—This company has been incorporated in New Mexico, with a capital stock of $7,000,000, to take over the Phelps, Dodge & Co. railway lines in Arizona and the Southwest. These are the Arizona & Southwestern, Southwestern of Arizona and the Southwestern of New Mexico. The line will extend from Nacasari, Mex., to El Paso, Tex., by way of Bisbee, Clifton and Deming, with 350 miles of road. It will be built to furnish an outlet from the Phelps, Dodge & Co. copper mines in Arizona and New Mexico. James Douglass, Pres.; S. P. Hutchinson, Second Vice-Pres. and Gen. Mgr.

ERIE.—C. W. Buchholz, Ch. Engr., 21 Cortlandt st., New York, writes us that Fred. Miller, Salamanca, has been awarded the contract for the substructural work for eliminating the grade-crossings at Salamanca, N.Y. The American Bridge Co., New York, has the contract for the superstructure.

GREENVILLE, NASHVILLE & CHATTANOOGA.—R. B. Richardson, Ch. Engr., Corinth, Miss., writes us that the contract for building and grading this line from Corinth, Miss., to Hamburg, Tenn., 18½ miles, has been let to J. H. McTighe. About two miles of the heaviest work have already been completed. F. L. Bates, Pres.; J. S. McTighe, Gen. Mgr., Memphis, Tenn.

HALIFAX & SOUTH WESTERN.—Wm. Mackenzie, S. D. Mason, of Toronto, Ont., and R. J. Mackenzie, of Winnipeg, Man., have been granted a charter for this line from Halifax to Yarmouth, N. S.

INTERNATIONAL & GREAT NORTHERN.—J. D. Trammell, Ch. Engr., Palestine, Tex., informs us that the contract for the remaining 90 miles of this road from Waco, Tex., to Ft. Worth, will be let in November. The surveys are now in progress, but the route has not been determined.

IOWA CENTRAL.—The stockholders of this company have authorized an issue of $25,000,000 4% 50-year bonds, for improvements and extensions to the line.

KINGSTON & PEMBROKE.—The company is said to be looking for a western connection, now that the government has aided it in the construction of the eastern extension. Surveyors will map out a route from Sharbot Lake and Palmers Rapids. The subsidies granted by the government to the Brookville & Westport for a road over that route which was never built, will probably go to this company. B. W. Folger, Gen. Mgr., Kingston, Ont.

MAGAULTAWAN RIVER RY.—A meeting of the stockholders was held on July 24 at Burks Falls, Ont., when arrangements were made for the immediate construction of this line, so that the road may be opened for operation by next spring. James Sharpe, Pres.; A. White, Vice-Pres.; W. Cooper, Treas.

MISSOURI, KANSAS & NORTH WESTERN.—Bids are asked by J. N. Finney, Milwaukee, Wis., and F. W. Fratt, Joplin, Mo., for grading and bridging this line from Mineral, Kan., to Joplin, Mo., 30 miles.

NEW BRUNSWICK, RY.—E. G. Evans is said to be in charge of the surveys for this road from Gibson to Chipman, N. B. The locations are being made as hastily as possible, and it is expected that construction work will be started in about two weeks.

NORTHERN MICHIGAN.—This company, organized to build a road from St. Ignace to Sault Ste. Marie, Mich., will, it is stated, begin the construction of its line within the next six weeks, with a construction force of about 1,000 men.

PENNSYLVANIA R. R.—It is stated that the Cornwall & Lebanon R. R., recently acquired by this company, will be greatly improved, and it is probable that an extension will soon be built from Lebanon to Reading, where connection will be made with the Schuylkill Valley branch.

PEORIA & WESTERN.—This company has 3,000 men at work on its line, and expects to begin the track laying by Aug. 10. The work at many places, especially in the district just out of Peoria, Ill., is unusually heavy.

PITTSBURG, CARNEGIE & WESTERN.—Reports state that this company will ask for bids at once for the Wabash extension from Bridgeville west to the Ohio River. It is expected that work will commence on all the divisions between Pittsburg and the Ohio River. We noted in our last issue the awarding of contracts for part of this work. J. W. Patterson, Ch. Engr., Pittsburg, Pa.

POPLAR CREEK COAL & IRON CO.—This company, with offices at Knoxville, Tenn., has decided to build a branch railway on its property to cost $30,000. E. J. Sanford, Pres.

ST. LOUIS & NORTH ARKANSAS.—S. W. Lee, Ch. Engr., Eureka Springs, Ark., informs us that a preliminary survey has been completed and the locations begun for the road, 60 miles. Contracts will probably be let about Sept. 1, when locations will be completed. The right of way is being secured. John Scullin, Pres., St. Louis, Mo.

ST. LOUIS VALLEY.—The grading on this line will be completed as far as Chester by Oct. 1 and the right of way for the rest of the way will be secured at once. The line will run between Cairo and East St. Louis, Ill., having a length of 144 miles. It will be the shortest line between those points, and will have a grade of only 13 ft. to the mile. W. S. Foreman, Pres., East St. Louis, states that work will be completed speedily, and it is hoped to have trains running in a year or 18 months.

SAN PEDRO, LOS ANGELES & SALT LAKE.—H. Hawgood, Ch. Engr., Los Angeles, Cal., writes us as follows regarding the construction of the line: "Good progress is being made with the surveys and securing rights of way. A contract for grading 60 miles has been let at the Salt Lake end of the line, and one for the same distance will shortly be let at the Los Angeles end. The company acquired the property of the Los Angeles Terminal Ry. Co. and is busy in the work of reconstructing that line from Los Angeles to East San Pedro, a distance of 26 miles, widening the banks to a standard width of 18 ft., fully ballasting with gravel and taking up the 56-lb. steel, with which the road was originally laid, and relaying with 75-lb. steel.

SOUTHERN.—W. B. Crenshaw, Atlanta, Ga., is making surveys for extending the Searcy branch to the coal fields of Northern Tuskaloosa.

SANTA FE CENTRAL.—An amendment to the incorporation papers of the Santa Fe, Albuquerque & Pacific Ry. has been filed, changing the name of the company to that of the Santa Fe Central Ry., with headquarters at Santa Fe, N. Mex. It provides for a line of railway, to be built immediately, from Santa Fe, where connection will be made with the Denver & Rio Grande Ry. to San Pedro, a distance of 40 miles, and from San Pedro to the Salt Lakes, near Pinos Wells, a distance of 80 miles, to a connection with the El Paso & Northeastern

Ry. Extension now being built. The company is capitalized at $2,550,000. John T. McLaughlin, Treas., San Pedro; Joseph E. Saint, Albuquerque, and Chas. W. Dudro, Santa Fe, N. Mex., are interested.

SOUTHERN MISSOURI & ARKANSAS.—E. F. Blomeyer, Vice-Pres., Cape Girardeau, Mo., writes us that contracts for building a portion of this line will be let at once. The section from Mingo to Poplar has already been completed. Newman Erb, Pres., New York; S. E. Coombs, Ch. Engr., Cape Girardeau.

SOUTHERN PACIFIC.—The company will lay nine tracks on Pueblo lot 15 in San Francisco, Cal., leased from the state. A large warehouse will be built, occupying the entire Drummer St. side of the lot. J. Kruttschnitt, Gen. Mgr., San Francisco, Cal.

SUNFLOWER & EASTERN.—Incorporated by E. M. Roots and F. E. and M. Roots, of Little Rock, Ark., to build a line extending from Parchman, Sunflower county, to Webbs, Miss., to be about 12 miles in length.

TOLUCA, MARQUETTE & NORTHERN.—Chas. S. Hanning, Ch. Engr., Toluca, Ill., writes us that this line will be 20 miles long, and will connect with the I., I. & I., at McNabb, Ill., and run over the latter line to Marquette. C. J. Devlin, Pres., Topeka, Kan.

VICKSBURG & SOUTHEASTERN.—The promoters of this road met at Jackson, Miss., on July 22 and perfected the organization and set on foot the plans for the preliminary survey. The road will run through Warren, Hinds, Copiab, Simpson, Covington and Perry counties, having a length of about 125 miles, and will be capitalized at $1,250,000. P. M. Harding, Pres., Vicksburg, Miss., informs us that the engineers will take the field at an early date. Samuel Whinery, Ch. Engr., 95 Liberty St., New York city.

WAYCROSS AIR LINE.—Alex. Bonnyman, Waycross, Ga., writes us that the right of way is nearly all secured, and the capital arranged. Webb, Mobley & Co., Fitzgerald, Ga., have been awarded the contract for the first 15 miles of the 37 miles of proposed road. Grading will be started in about 25 days. W. G. Raoul, Pres., 1 Nassau St., New York.

WEATHERFORD, MINERAL WELLS & NORTHWEST.—L. M. Fauts, Pres. and Ch. Engr., Weatherford, Tex., writes us that the company has advertised for bids for constructing its road, to be 61 miles long.

WHITE PASS & YUKON.—Reports state that during the next two years this line will be extended 200 miles, from White Horse to Fort Selkirk, on the Yukon River, 200 miles above Dawson. It will obviate the necessity of steamers passing through the dangerous Five Finger Rapids, where strong steel cables are now in use lining them up and down. The cost of the extension will exceed $3,000,000. M. J. Haney, contractor, has arrived at Tacoma, Wash., having completed a preliminary survey for the road between Valdez and Eagle. He is reported to have found a pass through the Copper River Mountains, the highest altitude of which is 2,400 ft., or 400 ft. less than that of White Pass. The road will be between 450 and 500 miles long.

STREET AND ELECTRIC RAILWAYS.

BANGOR, ME.—Reports state that the Public Works Co., of this city, which operates the water systems of several up-river towns, several lighting systems and the Bangor St. Ry., recently secured control of the Bangor, Orono & Oldtown Ry., and is buying large blocks of the stock of the Bangor, Hampden & Winterport Ry. It is expected that before winter the Public Works Co. will control the latter road, which will give it three of Bangor's four electric lines, and it has also bought the bridge between Bangor and Brewer, with the intention of so strengthening it that cars can be run directly between the two cities, instead of transferring passengers, as now.

BOSTON, MASS.—The N. Y. & Stamford Ry. Co. has been formed at White Plains, N. Y., with a capital of $500,000, to build a trolley line to Boston. The company represents the consolidation of the Larchmont and Port Chester electric companies, which now operate systems from Larchmont to Port Chester. The new company is now building a road to Greenwich, and as soon as this line is completed the road will be extended to Stamford and afterward to Boston. The Golden's Bridge Electric Co. has begun work on a new line to connect Stamford with Danbury and Golden's Bridge. This will form a system with connecting lines to New York and New Haven, covering 75 miles. W. W. Campbell and Wm. Murray, of Larchmont, N. Y., and W. H. Trumbull, of Salem, Mass.

FITCHBURG, MASS.—Local papers state that Harold Parker, Lancaster; F. W. Bateman, Engr., Clinton; W. S. Read, Leominster, and M. A. Coolidge, Fitchburg, have examined the route of the electric road to the top of Wachusett Mountain, to adopt a plan for ascending the mountain, whether by incline lines or by a circular route around the mountain.

LOWELL, MASS.—The Middleton & Danvers R. R. Co. has secured a franchise in this city for its trolley line between Lawrence, Middleton and Salem, the road to be in operation by July 1, 1902.

HARTFORD, CONN.—The Cheshire Electric Ry. Co., whose charter has been absorbed by the Connecticut Ry. & Lighting Co., has applied to the Superior Court for an order that public necessity and convenience require the construction of a trolley line from Waterbury through Prospect, Cheshire and Hamden to Mt. Carmel, where connection will be made with the New Haven street railway system. The proposed line will be 30 miles in length.

ALBANY, N. Y.—The state railroad commissioners have granted the application of the Troy, Rensselaer & Littsfield R. R. Co. to build its road, which will run from Troy to Rensselaer and thence to Sandlake and east to Pittsfield, Mass.

AMSTERDAM, N. Y.—The Amsterdam St. R. R. Co. proposes to build a power plant at Tribes Hill, to cost about $300,000. The power will also be used for the electric railways in Gloversville, Johnstown and Schnectady, N. Y. Address President Hees.

CANASTOTA, N. Y.—The Canastota & Morrisville Ry. Co. has been granted a franchise.

CLINTON, N. Y.—E. C. Metcalf, Westmoreland; Chas. H. Stanton, Kirkland, and H. W. Roberts, Clinton, have been appointed members of the committee which will make a preliminary survey for the projected trolley road from Clinton to Westmoreland, running through Clark Mills and Kirkland.

CLINTON, N. Y.—The Utica St. Ry. has been granted a franchise for a line from New Hartford to the park.

FREEPORT (L. I.), N. Y.—The Mineola, Hempstead & Freeport Traction Co. has received a franchise for a trolley road from the northern limits at Seaman Ave. Franchises to build through Hempstead to Mineola have also been obtained.

GREENWICH, N. Y.—The Greenwich & Schuylerville Electric R. R. Co. has filed a certificate for extending the road and to make improvements.

ONEIDA, N. Y.—The Oneida St. Ry. Co. has filed a certificate to extend its lines.

PITTSFORD, N. Y.—The Monroe County Electric Bell Line Co. has been incorporated by Geo. W. Aldridge, of Rochester, N. Y.; Walter A. Parce, of Fairport, N. Y., and F. W. Guernsey, of Pittsford, with a capital of $250,000.

SARATOGA, N. Y.—The Saratoga Traction Co. has been granted a franchise.

PAULSBORO, N. J.—The Camden, Gloucester & Woodbury Ry. Co. has applied for permission to extend its lines.

WASHINGTON, N. J.—Walter Cline is making surveys for an electric line between Greenwich, Franklin and Washington for the Lehigh Valley Traction Co., of Allentown. R. E. Wright, Pres.

ALLENTOWN, PA.—Hugh E. Crilly, of Allentown, has been awarded the contract for building the Allentown & Quakertown branch of the Lehigh Valley Traction Co. The branch is to be 20 miles long.

HARRISBURG, PA.—The following companies were incorporated last week: Monaca, Aliquippa & Coraopolis St. Ry. Co., to build a line 12 miles long; capital, $72,000. Pres., Wm. R. Wright, Philadelphia; Directors, W. Frederick Snyder, Philadelphia; Theo. P. Simpson, Beaver Falls. Beaver & New Brighton Electric St. Ry. Co., to build a line five miles long; capital, $30,000. Freedom & North Rochester Electric St. Ry. Co.; three miles; $18,000. Union Electric St. Ry. Co., to build a line from Brighton to Rochester Township, a distance of one mile; capital, $6,000. Beaver Falls & New Brighton Electric St. Ry. Co.; four miles long; $24,000. The officers of these four companies are the same as those of the first mentioned company. Canonsburg & Washington St. Ry. Co., to build a road eight miles long; $48,000; Pres., L. H. Matthews, Pittsburg. West Washington St. Ry. Co.; three miles long; capital, $18,000. North Washington & Meadow Lands St. Ry. Co.; six miles long; $36,000. The officers of these two companies are the same as those of the Canonsburg & Washing St. Ry. Co. McKeesport & Suburban St. Ry. Co.; two miles long; $12,000; Pres. H. B. Rhine, Bellevue, Meadville & Interurban St. Ry. Co.; 16 miles; $96,000; Pres., F. R. Shryock, Meadville. East Washington St. Ry. Co., four miles long; $24,000; Pres., L. H. Matthews, Pittsburg. Washington & Oak Grove St. Ry. Co.; $18,000; officers same as above. Belt Line Extension St. Ry. Co., to build one-half mile of road; $3,000; Pres., Chas. P. Baltzell, Altoona. Conneaut & Erie Traction Co.; 25 miles; $150,000; Pres., J. S. Cleve, Erie.

HAZLETON, PA.—A. E. Hess, Engr. Wilkes-Barre & Hazleton St. Ry. Co., writes us that the Keystone Improvement Co., contractor for the above railway, has let the contract for the Penobscot tunnel to Jas. P. Donahoe, of Kingston, Pa. The contract for the grading and masonry for the entire line has been let to John W. Crellin, of Hazleton. That for the boilers for the power station has been let to the Heine Boiler Co., Chicago; engines to C. H. Brown & Co., Fitchburg, Mass. The electrical equipment has not yet been let. L. B. Stillwater, Consult. Engr., Park Row, New York, N. Y.

PITTSBURG, PA.—Emil Swensson, Civil Engr., in charge of the various elevated, underground and surface railways which were recently chartered for Pittsburg, states that no work will be done on the proposed roads this year.

PITTSBURG, PA.—Bids are asked until Sept. 4 for furnishing the equipment, etc., for the power house and substation of the Pittsburg, McKeesport & Connellsville Ry., as stated in our advertising columns. M. R. McAdoo, Gen. Mgr., Bank of Savings.

WILMINGTON, DEL.—Vandegrift Bros., of Philadelphia, have been awarded the contract by the Wilmington & West Chester Electric Ry. Co. for building a line from Brandywine Springs to Unionville, Pa., a distance of 13 miles.

BALTIMORE, MD.—The Baltimore, Westminster & Gettysburg St. Ry. Co. has been organized and will at once begin the construction of its proposed line. I. A. Sweigard, Pres.; C. W. Atmore, Ch. Engr.; T. E. Durham, Secy. and Treas.——Thos. Newhall & Co. have been awarded the contract by the United Rys. & Electric Co. for extending its line.

HAGERSTOWN, MD.—W. C. Hepperle, of the Hagerstown & Boonsboro Ry. Co., writes us that work on the proposed line, to be 10 miles long, will begin this week. C. W. Lynch, Pres., Harrisburg, Pa.; E. E. Pipe, Ch. Engr. It is stated that C. King Keedy, of Baltimore, and Douglass Bros., of Baltimore, submitted bids.

WHEELING, W. VA.—We are informed that Stringer & Hallock, of Wheeling, have been awarded the contract for building an electric line to Wellsburg, W. Va., for the Pan-Handle Traction Co. Howard Hazlett, Pres., Wheeling; Robt. Hazlett, Ch. Engr.

ASHEVILLE, N. C.—Reports state that an electric railway will be built to connect this place with Rutherfordton; estimated cost, $400,000. The Seaboard Air Line Ry. Co. will control the road.

GREENVILLE, S. C.—The Greenville & Piedmont Traction Co. has been incorporated, with a capital of $100,000.

BIRMINGHAM, ALA.—Ford, Brown & Davis, of New York, have been engaged to take charge of the new work for the Birmingham Ry., Light & Power Co.; estimated cost, about $1,000,000.

JACKSON, MISS.—The Jackson St. Ry. & Electric Co. proposes to improve its property, to buy new cars, etc. Address General Manager Jackson.

BRIDGEPORT, O.—It is stated that a fire has destroyed the car barns, together with 20 cars, of the Wheeling Traction Co.; estimated loss, $50,000.

CINCINNATI, O.—The Little Miami R. R. Co. will issue $3,000,000 in "betterment bonds," the money to be expended for the improvement of the road between this city and Columbus via Xenia. Double tracks will be built.

CINCINNATI, O.—Local papers state that a 40-year franchise has been granted to S. T. Rogers, W. F. Young, C. C. Burton and A. B. Blanchard, capitalists of this city, for an electric railway from Stevens Point to Grand Rapids, Wis., to be part of the line from Grand Rapids to Tomahawk, 200 miles. Thirty miles of the road will be built this summer, and the balance as speedily as possible. The road will be operated entirely by water power at various points along the Wisconsin River.

OTTAWA, O.—N. E. Matthews, attorney, informs us that all preliminary work has been completed in connection with the building of the 115 miles of electric railway by the Defiance, Ottawa, Kenton & Columbus Interurban Ry. The questions of financing the enterprise are now under way. J. M. Sheets, Pres., Columbus; O. C. Talbot, Ch. Engr., Ottawa.

TOLEDO, O.—Ellis Bartholemew, 563 Spitzer Bldg., Toledo, writes us that a syndicate, headed by himself and Wm. P. Heaton, has absorbed the right of way formerly held by the Lima, Lewiston & Bellefontaine Ry. Co., and has begun the construction at Minster, O., of the proposed Toledo, Columbus, Springfield & Cincinnati Ry., to be operated by electricity. Work will begin between Round Head and Huntsville on Aug. 12. The line will be in all about 290 miles long. W. A. Ginn, Ch. Engr., 34 Haden Bldg., Columbus, O.

NEWCASTLE, IND.—Albert D. Ogborn, Mgr., of Newcastle, writes us that surveys for the Blue River Traction Co.'s line from Newcastle to Knightstown, 15¾ miles, have been completed. Capital for construction is not fully contracted for. It is not likely that contracts for construction will be let for some months.

BENTON HARBOR, MICH.—The West Michigan Traction Co. has been incorporated, with a capital of $1,000,000, to build a railway from Benton Harbor to Kalamazoo, a distance of 90 miles.

CHARLOTTE, MICH.—Robt. Gordon, of St. Marys, O., has been granted a franchise for an electric railway through this place, the termini being Battle Creek and Lansing. The Michigan Interurban Ry. Co. was recently incorporated, with a capital of $100,000, to build an electric road from Battle Creek to Coldwater, a distance of 40 miles.

JANESVILLE, WIS.—Hayes Bros., of Janesville, have been awarded the contract by the Beloit, Janesville & Delevan Lake Electric Ry. Co. for building the 35 miles of line. H. H. Clough, Pres.

CRESTON, IA.—It is stated that Lyman Waterman, of the Omaha System Traction Co., is making surveys for an electric road to Winterset.

MINNEAPOLIS, MINN.—Reports state that the Twin City Rapid Transit Co., which obtained authority from congress at its last session to dam the Mississippi River at Koon's Rapids, above Minneapolis, and develop power, has begun work on the dam. The franchise is distinct from the franchises owned by the company for operating street railways at Minneapolis and St. Paul. It gives to the company control of all available water powers around the two cities, as the company already has control of the Falls of St. Anthony, at Minneapolis. It is estimated that the cost of the new dam will be $600,000, and that a minimum of 10,000 HP. can be developed at the rapids.

ST. PAUL, MINN.—Samuel Hill, of Minneapolis, is reported as considering the question of building an electric railway between the two cities.

LEAVENWORTH, KAN.—The Leavenworth Ry. Co. has been incorporated, with a capital of $500,000, by W. H. Gabriel, of Cleveland, O.; H. W. Wolcott, of Leavenworth; J. M. Denny and Frank E. Lott, of Kansas City, Mo.

TACOMA, WASH.—Hale & Smith have begun work on the grading for the Tacoma-Seattle Interurban Electric Ry., to cost about $200,000. Wooding & Lunn have the contract, at $50,000, for fencing the right of way.

HAYWARDS, CAL.—Local papers state that W. G. Henshaw has purchased the stock of the electric roads here for a Baltimore syndicate, who will spend about $100,000 on improvements.

LOS ANGELES, CAL.—Bids are asked by the council until Sept. 3 for the purchase of franchises for three different electric railways, they having been applied for by the Los Angeles Traction Co., C. A. Sumner and the Temple Cable Ry. Co.

REDLANDS, CAL.—The stockholders of the San Bernardino Valley Traction Co. will meet on Sept. 10 to consider the question of issuing $250,000 in bonds for the construction of lines from this city to Colton and San Bernardino.

TRURO, N. S.—H. Donkin, C. E., late manager of the Dominion Coal Co., has arrived there to inspect the route for the proposed railway between this place and Guysboro, via Thorburn, Garden of Eden and Country Harbor.

ELECTRIC LIGHT AND POWER.

NEW HAVEN, CONN.—It is stated that plans for a power plant of 3,000 HP. capacity have been completed. W. E. Hitchcock is interested.

UTICA, N. Y.—The specifications for electric lighting for one, three or five years from Jan. 1, 1902, have been completed and bids will probably soon be asked. Check, $15,000. Address City Engineer Schultze.

GREENSBURG, PA.—The Allegheny & Westmoreland Electric Heat & Power Co., composed of Fort Wayne (Ind) and Pittsburg capitalists, have again applied for franchises.

MEDIA, PA.—Plans for a borough electric plant are being prepared, according to reports.

FORT WASHINGTON, MD.—We are informed that the following bids were received by Lieut.-Col. Chas. J. Allen, U. S. Engr., Washington, July 27, for an electric plant: McCay Engineering Co., Baltimore, $5,333; Stuyvesant Electric Co., New York, $6,075; Edward Heaton, New York, $8,795; D. M. Shehan, New York, $4,213; James Reilly Repair & Supply Co., New York, $6,925; National Electrical Supply Co., Washington, $5,369; N. J. Foundry & Machine Co., 39 Cortlandt St., New York, $5,487.

BOND, MISS.—It is stated that the Bond Improvement Co., just organized with a capital of $2,500 by M. J. Bethune, W. J. Evans and Preston Bond, will build an electric and gas plant, etc.

LUDLOW, KY.—The Kentucky Electric Co., which has the franchise for lighting Ludlow, West Covington, Central Covington and Latonia, has been absorbed by the Union Light, Heat & Power Co. A number of improvements will be made. Jas. C. Ernst, E. Darrow, R. H. Fleming, Geo. Engel and Richard P. Ernst are interested.

CINCINNATI, O.—The council light committee will soon ask for bids for such gasoline lighting as may be required. Councilman Mullen, Chn. Com.——The Suburban Electric Co., recently organized, is reported arranging to build a power plant at Reading, O., to furnish light and power to the nearby towns. Col. J. H. Woodward, Pres.

COLUMBUS, O.—The Osborn Engineering Co., Osborn Bldg., Cleveland, O., is preparing plans for a new power installation for the Kilbourne & Jacobs Mfg. Co., Columbus. Electric transmission of power will be used; total installation, 1,000 HP. Boilers and engines have already been purchased. The buildings will be of brick and steel construction.

NEWTOWN, O.—Reports state that an electric plant will be built here.

TOLEDO, O.—W. J. McClurg, of the McClurg Gas Construction Co., of Pittsburg, Pa., has offered to purchase the city gas plant.

INDIANAPOLIS, IND.—Bids are asked by the board of works until Aug. 18 for electric lighting.

NEW CASTLE, IND.—Reports state that the pumping plant of the Richmond Gas Co., located at Chesterfield, is to be removed to this place.

SAULT STE. MARIE, MICH.—Press reports state that excavation work has been begun on the second water power canal at the Canadian Soo by the Clergue syndicate. The canal will parallel the one now in operation. The new canal will develop 30,000 HP. Work on the steel manufacturing plant under course of construction at the Canadian Soo by the Clergue people is being prosecuted. Six dredges are at work in the harbor where the docks will be located. Machinery for the plant is on the ground awaiting installation, and the stone buildings are assuming proportions.

PLAINFIELD, ILL.—D. A. Hallett, of Aurora, Ill., is reported to have submitted estimates for a power plant to cost $9,000.

CEDARBURG, WIS.—The council is reported as arranging for the construction of an electric plant.

GRANTSBURG, WIS.—This place has voted to grant a 20-year franchise to the Grantsburg Electric Light & Power Co. A. Z. Drew and A. P. Nelson are interested.

FREMONT, NEB.—Reports state that R. N. King, of Dayton, O.; Jas. L. Arnott, of Manchester, N.H.; Geo. W. Rafter, Civil Engr., Rochester, N. Y., and Andrew Rosewater, C. E., of Omaha, are interested in a proposed power plant and canal at Fremont; estimated cost, about $1,500,000.

NORFOLK, NEB.—This place has voted to issue $16,600 in bonds for an electric plant.

LITTLE ROCK, ARK.—The council will extend the electric plant at a cost of $20,000. Address Councilmen F. J. Ginocchio, Herman Kahn and T. H. Bunch.

MOUNT PLEASANT, TEX.—It is stated that the plant of the Mount Pleasant Electric Light & Power Co. was recently destroyed by fire, causing a loss of about $6,000.

POMEROY, WASH.—H. M. Taatcher, of Pomeroy, writes us that it is proposed to build an electric plant, water-works, flour mill, saw mill, etc. Mr. Thatcher proposes to develop about 10,000 HP.

ANGEL'S CAMP, CAL.—Reports state that the Utica Mining Co. of this place is preparing to build a power plant, etc.

LOS ANGELES, CAL.—F. C. Finkle, Ch. Engr., California Power Co., writes us that it is proposed to build a power plant on the Kern River, near Bakersfield, to develop about 15,000 HP.; estimated cost, $2,000,000. The plant will require a 120-mile transmission line to Los Angeles. A road is being built in order to reach the site of the plant in Kern River canyon.

REDDING, CAL.—C. A. Warren & Co., 232 Montgomery St., San Francisco, Cal., have been awarded the contract by the Shasta Electric Light & Power Co. for constructing a power canal for the proposed plant. It is stated that contracts for the equipment of the plant have not yet been let. J. B. Rogers, Engr., Crocker Bldg., San Francisco.

PRESCOTT, ARIZ.—Reports state that arrangements are bing made to extend the plant of the Jerome Power Co. on Oak Creek at a cost of $225,000. Gen. M. H. Sherman, of Los Angeles, Cal., and E. H. Meek are interested.

BOISE, IDAHO.—The Boise-Payette River Electric Power Co. is arranging to build its proposed power plant at Pearl, to develop about 2,500 HP. J. Spofford, Mgr.

COLLINGWOOD, ONT.—An election will be held Aug. 16 to vote on the question of issuing $10,000 in bonds for extending the electric plant, and $5,000 for improving the water-works.

NIAGARA FALLS, ONT.—Reports state that the Ontario Power Co. is about to begin the construction of a plant to be known as the Chippewa Canal scheme, to develop power in opposition to the Canadian Niagara Power Co., which is sinking a shaft for its new plant at Niagara Falls, Ont. R. Paine Banker, of Niagara Falls, South, is interested.

OTTAWA, ONT.—Nelson P. Hutch, of Milwaukee, Wis., and Louis Simpson, of Ottawa, are arranging to build a power plant at Chats Rapids.

RENFREW, ONT.—Bids are asked until Aug. 24 for constructing a wooden dam and flume and power house for the Renfrew Power Co., Ltd. T. A. Low, Secy.

TORONTO, ONT.—The Humber Power Co., recently incorporated by Jos. Barrett and Ellswood Smart are preparing to build a power plant on the Humber River, near Toronto.

BRIDGES

RUTLAND, VT.—Bids are asked until Aug. 19 for furnishing a steel truss bridge to replace the Riplay bridge, as stated in our advertising columns. E. D. Graves, Consult. Engr., Hartford, Conn.; H. B. Whittier, Purchasing Agent.

WORCESTER, MASS.—According to reports, the Worcester, Rochdale & Charlton Depot St. Ry. Co. will build a bridge over the Boston & Albany R. R. tracks in James St.

ROCHESTER, N. Y.—The American Bridge Co., New York, has been awarded a contract for constructing the Lyell Ave. canal foot bridge, at $2,427.

SYRACUSE, N. Y.—Reports state that work will be started at once on the bridge over Onondaga Creek at West Brighton Ave., and that bids will be advertised for.

TROY, N. Y.—W. E. Martin has been awarded the contract for remodeling and strengthening the bridge between Upper Troy and Waterford, at about $25,000.

TRENTON, N. J.—Charles A. Sims & Co. have been awarded a contract by the Pennsylvania R. R. Co. for constructing a four-track masonry bridge across the Delaware.

GREENWOOD, PA.—The Osborn Engineering Co., Cleveland, O., has estimated the cost of constructing the Green St. overhead bridge at $64,100.

ELKTON, MD.—The York Bridge Co. was awarded a contract on July 31 for constructing an iron bridge over Sassafras River, at $7,779.

FAIRMONT, W. VA.—Ice Bros. have been awarded the contract for the stone work and the Canton Bridge Co. for the steel work for a bridge across the river at Colfax.

SPARTANBURG, S. C.—Bids are asked until Aug. 9 by the county commissioners for constructing a bridge over Bens Creek. W. G. O. O'Shields, Clk.

BLUE RIDGE, GA.—Bids are asked until Aug. 19 for covering two bridges over Toccoa River and one bridge over Fightingtown Creek; also for constructing a bridge over Fightingtown Creek. M. J. German, Ordinary.

HAMILTON, O.—Bids are asked until Aug. 23 for constructing a three-span iron or steel bridge across the Great Miami River at Woodsdale. Bids are also asked at the same time for masonry, excavation and fill for said bridge. H. C. Gray, County Audr.

JOHNSONVILLE, TENN.—The Louisville Bridge Co., Louisville, Ky., has been awarded the contract for constructing the Nashville, Chattanooga & St. Louis Ry. bridge over the Tennessee River, at $75,000.

ST. CLAIRSVILLE, O.—Bids are asked until Aug. 26 for constructing the stone substructure of a bridge over Wheeling Creek in Colerain. M. Aldredge, County Audr.

INDIANAPOLIS, IND.—Bids are asked until Aug. 15 for constructing a bridge over Crooked Creek near North Augusta; also for a bridge over Dog Run at Munter's Farm. Harry B. Smith, County Audr.

BRIDGEPORT, MICH.—The question of erecting a bridge at this place will soon be submitted to vote.

ECORSE, MICH.—This place and Springwells will hold an election on Aug. 14 to vote on the question of issuing $19,000 in bonds each for constructing a bridge over the Rouge River at Dix Ave.

SAULT STE. MARIE, MICH.—The Soo Line 90-ft. bridge across the Pine River at Rudyard was washed away on July 28.

CARBONDALE, ILL.—A bridge over the Illinois Central R. R. on the Gale Division was burned on July 28.

GRAYVILLE, ILL.—A bridge on the Big Four Ry. between Carmi and Stokes was burned on July 27.

WATSEKA, ILL.—Bids are asked until Aug. 17 by the county clerk for constructing a 252-ft. bridge on stone masonry at Plato. Ira O. Baker, Engr., Champaign.

RACINE, WIS.—A petition is being circulated asking that a bridge be constructed across Root River connecting Herrick and Lafayette Aves.

OLIVIA, MINN.—Bids are asked until Aug. 15 for constructing a steel bridge 139 ft. long across the Minnesota River at Morton. J. T. Brooks, County Audr.

SOUTH OMAHA, NEB.—The Union Pacific R. R. and the Union Stock Yards officials are considering the question of constructing the O St. viaduct, at a cost of about $80,000.

KANSAS CITY, MO.—The council has appropriated $6,000 for constructing the Benton Boulevard bridge. The Belt Line Ry. will pay $18,000 of the total cost of $24,000. Waddell & Hedrick have been instructed to prepare plans for the work, and bids will soon be asked for.

FORT WORTH, TEX.—A 600-ft. viaduct will be erected over the Texas & Pacific R. R. tracks. The estimated cost of the structure is: Wood, $35,000; steel, $70,000.

COLFAX, WASH.—Bids are asked until Aug. 12 for constructing a 70-ft. span and 18-ft. roadway bridge. C. G. Raley, County Audr.

KALAMA, WASH.—Bids are asked until Aug. 9 by the county auditor for constructing a bridge across Olequa Creek near Olequa.

SEATTLE, WASH.—Bids are asked until Aug. 8 by the county commissioners for constructing a bridge across Susie Creek near Kent.——The commissioners have approved the plans for constructing the Spokane Ave. bridge, and bids have been advertised for. There will be over 5,000 ft. of trestle work and a 90-ft. draw. The estimated cost is about $20,000.

VANCOUVER, WASH.—Bids are asked until Aug. 9 by the county auditor for constructing the Gibbon's bridge near Washougal.

SANTA ROSA, CAL.—Bids are asked until Aug. 10 for constructing a bridge and approach over Russian River near Cloverdale. Somers B. Fulton, County Clk.

VENTURA, CAL.—Bids are asked until Aug. 10 for constructing pile protection work for the Santa Clara River bridge. Geo. E. Farrand, Clk. Bd. Supervisors.

OGDEN, UTAH.—The county commissioners have decided to construct a steel bridge at the mouth of Ogden Canyon.

TORONTO, ONT.—The Rosedale bridge has been condemned by City Engineer Rust and bids will shortly be asked for repairs to cost about $11,000.

BUILDINGS.

BOSTON, MASS.—A 6-story mercantile building will be erected by the Merchants Real Estate Trust on Washington and Thacher Sts., 160 × 85 ft. There will be one passenger and one freight elevator. Peabody & Stearns, Archs., 53 State St.

BOSTON, MASS.—The following bids were received by the Navy Department Aug. 3 for a ship fitters' shop and a metal workers' shop at the Boston Navy Yard: Penn Bridge Co., Beaver Falls, Pa., $338,917; F. G. Coburn & Co., Melrose, Mass., $327,500; Norcross Bros., Worcester, Mass., $395,600; L. L. Leach, Chicago, $324,000; Snare & Triest, New York, $352,000; D. H. Hayes Co., Chicago, $348,794; J. A. Colson, Charleston, Mass., $370,000; Mead, Mason & Co., Boston, $355,000; the ship fitters' shop alone: R. A. Griefen, Chicago, $173,000; central heating system: General Fire Extinguisher Co., Providence, R. I., $26,720 and $25,850; Bradlee & Chapman, Boston, $32,700 and $34,800; Lynch & Woodward, Boston, $33,179 and $32,769; New York Steam Fitting Co., New York, $34,750; Evans, Almiral & Co., New York, $33,900; Francis A. Williams, New York, $30,962.

SPRINGFIELD, MASS.—Plans and estimates for a new school building to cost $105,000 have been completed.

NEW HAVEN, CONN.—Bids are asked until Aug. 30 for a high school building. Brown & Von Beren, Archs., New Haven.

BUFFALO, N. Y.—Work has begun on the 4-story warehouse and factory at Tecumseh and Tennessee Sts. for Sidney, Shepard & Co. It will be 200 × 40 × 150 ft.

NEW YORK, N. Y.—Work has begun on the addition to St. Patrick's Cathedral in Madison Ave., between 50th and 51st Sts., to cost about $400,000. The architect is C. T. Mathews, who has also prepared plans for a residence in Monterey, Mex., for the Duchess de Milmo, to cost about $500,000.——Sire Bros. have let contracts for a new theatre at 46th St. and Broadway, to have a seating capacity of 1,500.

NEW YORK, N. Y.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, until Aug. 21, for a brick and steel building, 65 × 350 ft., at the Philadelphia navy yard, and until Sept. 7 for a 3-story building, 100 × 300 ft., at the N. Y. yard.

YONKERS, N. Y.—Bids are asked until Aug. 9 for a public comfort station, etc., in Washington Park. S. L. Cooper, Supt. Parks.

BAYONNE, N. Y.—The Nelson Morris Beef Co. has let the contract for a warehouse to be 125 × 130 ft. to John Bull & Sons.

JERSEY CITY, N. J.—The following contracts for erecting public school No. 29 have been let: Mason work, Chas. Knederly, $23,902; carpenter work, Barron Donaldson, $13,668; plumbing, F. T. Kelaher, $4,635; heating and ventilating, Baldwin Engineering Co., $12,438.

ELIZABETH, N. J.—Ackerman & Ross, 156 5th Ave., New York, have been awarded the first prize for the plans for the new county court house, to cost $250,000.

GOWANDA, PA.—R. U. Taylor, of Olean, N. Y., has been awarded the contract at $142,000 for building two additions to the state hospital. The plumbing contract has been let to W. H. Simpson at $13,000.

PHILADELPHIA, PA.—Baker & Dallett, 1420 Chestnut St., are preparing plans for a $130,000 addition to the Norristown Hospital, and bids will soon be asked.——McIlvane & Roberts, Land Title & Trust Bldg., have completed plans for an apartment house on Locust St., between 17th and 18th Sts., for McIlvane & Co. It will be a 9-nine story and basement structure.——It is stated that work on the proposed 15-story building at 12th and Chestnut Sts., for the Commonwealth Trust Co. will be begun in October; estimated cost, $450,000. John T. Windrum, 1107 Walnut St., Arch.; H. M. Dichert, Pres.——Frank S. Riggs, builder, is reported as wanting bids for a 5-story building at 1215 and 1217 Arch St. for A. H. Merston; F. E. Martin, Arch. Builder Riggs also wants bids for a residence at Devon for J. W. Patterson, to cost $75,000; W. L. Price, Arch. Bids will soon be wanted by A. W. Dilkes, Arch., for a school building in Coatesville, to cost $25,000. P. A. & S. Davis, 907 Walnut St., have completed plans for a $100,000 building for the Colonial Trust Co. at Reading. Steele & Sons have completed plans for an addition to the tapestry mills at Howard St. and Allegheny Ave., to cost $40,000. Wilson Bros. & Co. have completed plans for an extension to the Drexel Institute and for a new school for Mount St. Joseph's Convent, Chestnut Hill. Wm. C. Hays is preparing plans for a laboratory for the Stetson University at Leland, Fla., to cost $40,000. Bids will soon be wanted by the P. & R. R. R. Co. for a new passenger station at Nicetown. Louis Hickman, Arch. J. B. Beverly has been awarded the contract at about $40,000 for a 3-story building for the Navy Department at New Castle, Del. The following bids were received July 29 by the Q. M., U. S. A., for three new buildings for the Frankford Arsenal: G. W. Pierson, $79,700; Cramp & Co., $80,865; Hood & Co., $82,400; Lewis Haven's Sons, $84,745; G. F. Payne & Co., $87,900; A. Raymond Raff, $93,542, and F. G. Castor, $94,475.

PHILADELPHIA, PA.—Bids are asked until Aug. 30 for a 4-story brick storehouse at the Schuykill Arsenal. Col. J. V. Furey, Q. M., U. S. A., 1428 Arch St.

PITTSBURG, PA.—The Armstrong Cork Co. has filed plans for a 7-story brick warehouse, to cost $25,000; A. R. Peacock for a dwelling, etc., to cost $51,000, and J. R. Morrow, for 17 two-story brick dwellings, to cost $65,000.

PITTSBURG, PA.—The plans for the union station here for the Pennsylvania R. R. Co. call for a structure covering 20 tracks; estimated cost, $400,000. The track work and the signal system will cost about $300,000 more.

PITTSBURG, PA.—The work of removing the building on the site of the proposed abattoir for the Pittsburg Produce Packing Co., on Heer's Island, estimated to cost about $900,000, which includes a retaining wall around the entire island, to cost about $150,000. Saml W. Allerton, of Chicago, Ill., is interested.——Hayes & Sefton, of Allegheny, Pa., have been awarded the contract for the new East End Church building, to cost about $125,000. J. L. Beaity, Arch.

WASHINGTON, PA.—Golden & Crick, of Pittsburg, Pa., have been awarded the contract at $150,000 for constructing a 6-story office building for the Washington Trust Co.

BALTIMORE, MD.—The police board is considering a proposition to build a new central police station.

WASHINGTON, D. C.—Bids are asked until Aug. 12 for two hot-water heaters, one oil separator, feed-water heater, feed pumps, centrifugal pump and engine, for the old post-office building. E. A. Hitchcock, Secy. Interior.——The following bids were received by Secretary Hitchcock Aug. 2 for 15 buildings at the insane asylum at Washington, the bids being rejected as only $925,000 is available for construction:

Bids Received at Washington, D. C., Aug. 12, 1901, for Constructing Buildings at the Insane Asylum.

Items.	Horton & Hemenway, Providence.	W. Cramp Co., Philadelphia.	Wm. E. Spier, Washington.	R. H. Evans, Massillon.	L. D. Wilcutt & Sons, Boston.	Norcross Bros., Worcester, Mass.	N. H. Thomas, Washington.
Buildings	$1,150,893	$1,331,980	$1,312,529	$1,302,823	$1,367,720	$1,480,608	$172,000
Plumbing	60,654*	39,000*	54,251‡	58,531	44,655	60,654	.....
Electrical fittings	22,797†	17,165	19,700§	17,176	19,672	24,419	.....
Heating and ventilating	116,738	100,730	103,720	119,435	102,942	124,819	.....
Total	$1,351,082	$1,438,875	$1,490,200	$1,497,965	$1,534,989	$1,690,500	$172,000
Time to complete	550 days.	22 mos.	3 years.	29 mos.	18 mos.	3½ years.	1 year.

Noble H. Thomas only bid for an office building. Sub-contracts to be let to: *Jas. Holan & Sons, †National Electrical Supply, ‡R. J. Caverly, §National Electrical Supply Co. and John R. Galloway.

NEWPORT NEWS, VA.—Plans have been prepared for a new administration building at the Hampton Normal and Agricultural Institute, to cost about $100,000.

NORFOLK, VA.—The Second Presbyterian Church proposes to build a new house. N. L. Page, Chn. Com.

NORFOLK, VA.—Press reports state that a 10-story office and store building will be erected here at a cost of about $750,000.

RICHMOND, VA.—The committee of public institutions is considering the question of building a new state prison, to cost about $500,000. Gen. R. A. Ayres, Chn.——Thos. F. Ryan, of New York, is reported to have given the Catholic Church of Richmond $250,000 for a new building.

KEYSER, W. VA.—Wm. A. Miller, of Keyser, has been awarded the contract at $34,884 for building the preparatory branch of the W. Va. University.

PARKERSBURG, W. VA.—J. A. Westenhaver, of Martinsburg, W. Va., has submitted the lowest bid at $53,000 for a new building at Sheperdstown for the state normal school.

ASHEVILLE, N. C.—The Southern Ry. Co. is making surveys for a new passenger station here. W. E. West has charge of the work.

ASHEVILLE, N. C.—Bids are asked until Sept. 5 for the purchase of $50,000 of 5% 30-year bonds for a county court house. M. L. Reed, Chn. Com.

DURHAM, N. C.—The council has purchased a site for the proposed city hall and market, to cost about $40,000. C. C. Taylor, Chn.

AUGUSTA, GA.—E. H. Conner, Comr., writes us that bids will be asked probably about Aug. 30 for a brick building. Dr. W. H. Harrison proposes to erect a brick building on Broad St., to cost $50,000.

BRUNSWICK, GA.—Bids will be asked at once for a new city hall, according to reports.

CALHOUN, GA.—An election will be held Sept. 14 to vote on the question of issuing bonds for a new school. W. L. Hillhouse, Mayor.

JACKSONVILLE, FLA.—We are informed that a brick science hall, to cost $45,000, will be built by the Florida State Agricultural College. There will be steam heat, electric lights, etc. Snelling & Potter, Archs., 132 West Forsyth St.

JACKSONVILLE, FLA.—The Dyal Upchurch Co., of Moniac, Ga., has purchased property at Main and Ray Sts., on which it is proposed to erect a large building. Buildings are being put up by Furchgott & Co., S. P. Holmes, E. E. Cleveland, Chas. A. Clark, C. O. Livingston and others costing about $450,000. It is stated that over $1,500,000 worth of buildings are being erected on the site of the recent fire. The Baltimore Construction Co. has been awarded the contract at about $315,000 for erecting the new Windsor Hotel. Frank V. Newell, Arch., Chicago.

BIRMINGHAM, ALA.—It is stated that Brown Bros. & Co. are letting contracts for a 10-story office building on Hewlett Corner.

HUNTSVILLE, ALA.—The board of education proposes to erect a new school building to cost $40,000.

JACKSON, MISS.—Jas. McCardle proposes to erect a new hotel to cost about $35,000.

NEW ORLEANS, LA.—Ben. A. Mitchell, Secy., P. O. Box 1585 writes us that the New Orleans abattoir has just been purchased by his associates. The building will be remodeled and new machinery installed. The property will not come into their possession until Oct. 1. Contracts will probably not be made until a short time before Oct. 1.

LOUISVILLE, KY.—Local papers state that the Illinois Glass Co. and the United States Bottlers' Supply Co. have purchased a plot of land between Washington and Water Sts., on which they will erect a 5-story brick and stone building, to cost about $40,000. Work will begin in the fall.

RICHMOND, KY.—Bids are asked until Aug. 12 for improving the county courthouse. Cropsey & Lamm, Archs., Cincinnati, O., and Builders' Exchange, Louisville; J. T. Cobb, Chn. Com.

CINCINNATI, O.—The Cincinnati Traction Co. proposes to erect a building on Walnut St. and Government Square, to cost about $1,000,000. J. B. Foraker, Jr., Vice-Pres.

CLEVELAND, O.—Bids are asked until Aug. 26 for a school building. T. H. Bell, School Dir.

FORT WAYNE, IND.—Alfred Grindle, of this city, has been commissioned to prepare plans for a building for feeble-minded women. It will cost about $40,000.

INDIANAPOLIS, IND.—The Indianapolis Sanatorium & Benevolent Association, capitalized at $60,000, has been incorporated. The association will establish a hospital in this city for the care of the sick. Joseph R. Rose, R. O. Ross and John H. Miller are interested.

INDIANAPOLIS, IND.—Bids are asked until Aug. 21 for the purchase and removal of the buildings now on the site of the proposed U. S. court house and post office. J. K. Taylor, Supervising Arch., Washington, D. C.

INDIANAPOLIS, IND.—Bids are asked until Aug. 23 for a boiler house and steam-heating apparatus for school house No. 13. J. E. Cleland, Dir. Bd. School Comrs.

CHARLOTTE, MICH.—The Michigan Central Ry. Co. proposes to build a new station here. Chas. Carr, Supt. Bldgs., Detroit.

DETROIT, MICH.—Bids are asked until Aug. 19 for an aquarium and greenhouse on Belle Isle Park. E. A. Schilling, Arch., 47 Peninsular Bank Bldg.; R. E. Bolger, Comr.

GRAND HAVEN, MICH.—Jas. Curtis & Co., of Grand Rapids, Mich., have been awarded the contract at $42,000 for a school building here.

LAKE LINDEN, MICH.—Architect Pierce, of Hancock, and C. K. Strand, of Calumet, Mich., are preparing plans for a city hall. G. L. Clausen, Cy. Engr.

CHICAGO, ILL.—Work will soon be begun on an apartment house house at Cottage Grove Ave. and 49th St., to cost $100,000; Wilson & Marshall, Archs.——Contracts will be let soon for two apartment houses in Hyde Park, to cost $150,000, for John B. Mallers. Harvey Wright, Arch.——Poeton & Miller are preparing plans for a workshop, with forge, machine shop, woodworking shop, etc., for the Armour Institute, to cost $50,000. The Rialto Elevator Co. has been granted a permit for a grain elevator at 104th St. and Calumet River, to cost $350,000, and J. Rosenbaum has secured a permit for a steel grain elevator at 107th St. and Calumet River, to cost $250,000.——Clinton J. Warren has let contracts for a passenger station at Lafayette, Ind., for the Monon Ry.——Morrison H. Vail is reported as preparing plans for a new Y. M. C. A. at Hermitage and Wilson Aves., Ravenswood, to cost $50,000.

MILWAUKEE, WIS.—New bids will be asked at once by the board of public works for erecting a new school building at 28th and Clarke Sts., to cost about $35,000. The council recently voted $250,000 for four new schools, the above being one of them.

DES MOINES, IA.—Bids are asked until Aug. 15 for a two-story stone and brick school building, to cost $120,000. We are informed that there will be electric lights, hot-blast system of heating, etc. Proudfoot & Bird, Archs.

DUBUQUE, IA.—Bids are asked until Aug. 16 for erecting a school house. Heer & Son, Archs.; T. C. Murphy, Secy. Bd. Education.

DULUTH, MINN.—The U. S. Steel Corporation proposes to build a 7-story building here to cost about $350,000.

MINNEAPOLIS, MINN.—R. McMillan & Co. have secured the contract to erect the Mechanics Art Hall and the electric plant for the State University, to cost $40,000, and Frank G. McMillin has the contract at $20,000 for the veterinary building at the state farm.

ST. PAUL, MINN.—Daniel R. Noyes informs us that the new brick printing house in this city will be four stories, 50 x 150 ft., costing about $40,000. J. Walter Stevens, Arch.

GAINESVILLE, MO.—The A., T. & S. Fe Ry. Co. proposes to build a new depot at Gainesville, to cost $50,000.

ST. LOUIS, MO.—The board of education has filed a permit for a school building to cost about $104,000.

SEWARD, NEB.—The county clerk writes us that Seward county has voted against the proposition to build a court house.

BUTTE, MONT.—Reed & Stern, of Minneapolis, are preparing plans for a passenger station at Butte, to cost $45,000, for the N. P. Ry. Co., and for a 2-story addition to the railway hospital at Brainerd.

SHERMAN, TEX.—The Sisters of St. Vincent de Paul will build a sanitarium in the southern end of the Fifth Ward, to cost about $65,000.

WILLS POINT, TEX.—Bids are asked Aug. 15 for erecting a brick school building. Jas. Riely Gordon Co., Archs.

ARDMORE, IND. TER.—The Santa Fe and the Choctaw railroads propose to build a $35,000 station here.

ALAMEDA, CAL.—An election will be held to vote on the question of issuing $100,000 in bonds for one new schoolhouse, costing about $65,000, and other school improvements.

PATTON, CAL.—Bids are asked until Aug. 26 for a ward building for the South Carolina state hospital. T. H. Goff, Arch., San Bernardino, Cal.

SAN JOSE, CAL.—The Cured Fruit Association has let contracts for a new packing house at Santa Clara, to have a capacity of 18,000,000 lbs. of prunes.

SALT LAKE CITY, UTAH.—Bowman, Hodder & Co. have been awarded the contract at $44,847 for the main building for the State Agricultural College.

MONTREAL, QUE.—The board of trade is reported as arranging for its new building, to take the place of the one recently destroyed by fire.

WINNIPEG, MAN.—The city council has accepted the $100,000 gift of Andrew Carnegie for a new public library.

WATER-WORKS.

DEXTER, ME.—C. M. Sawyer, Chn. Water Com., writes us that this city voted down the proposition to build works this year. Pop., 3,000.

NEWMARKET, N. H.—The commission to make a report on the value of the water-works has submitted its report, valuing the works at $83,000. The town has decided to buy the works for this sum. The commission is composed of J. B. Smith, of Hillsborough Bridge, N. H.; Edwin F. Jones, of Manchester, and J. B. Tennant, of Epsom, N. H.

MONTPELIER, VT.—The council is investigating the alleged contamination of the water supply. Alderman Wheelock, Chn. Com.

WESTERLY, R. I.—This place has voted to extend the works to Watch Hill, at a cost of about $100,000. L. W. Arnold, Chn. Water Bd.

GLOUCESTER, MASS.—C. C. Cressy, Chn. Water Comrs., writes us that surveys of Haskell's Pond for an increased water supply are being made. The work will probably be done by local employees.

WORCESTER, MASS.—Work on the proposed new reservoir, etc., at Paxton will soon begin. It will require about $35,000 more to complete the new dam at Tatnuck Brook. F. A. McClure, Cy. Engr.

GROTON, CONN.—An engineer is making surveys for a new source of water supply, a standpipe, etc., for the city, in addition to the recent purchase of the charter of the Groton Water Co. Chas. E. White, Chn. Com.

NEW LONDON, CONN.—Robbins & Potter (Alex. Potter), 150 Nassau St., New York, are said to have been awarded the contract for building the dam at reservoir No. 1, at $35,415. The itemized bids were given in our last issue. W. H. Richards, Supt.

ALEXANDRIA, N. Y.—The question of building the works, to cost about $47,000, is again being considered. The water supply will be secured from the St. Lawrence River. Surveys were made last year by F. A. Hinds, of Watertown, N. Y.

GLENS FALLS, N. Y.—Bids are asked until Aug. 12 for raising the Keenan storage dam 4 ft., etc., as stated in our advertising columns. Geo. P. Slade, Engr.

GREEN ISLAND, N. Y.—Stewart M. Neff, of New York, has been awarded the contract by the water company for a new reservoir, etc. P. O., Albany.

HUNTER, N. Y.—The Schoharie Water Co. has been incorporated, with a capital of $10,000, by Renwick Dibbell, of Tannersville, N. Y.; Martin Shields, of Elka Park, Greene county, and Carl P. Goepel, of New York.

NEWARK VALLEY, N. Y.—M. W. Bakeman, Dr. F. M. Bishop and A. D. Roys have been appointed a committee to report on the matter of works. L. J. Richardson, Engr., Owego, N. Y.; Dr. C. W. Chidester, Pres. of Village.

NEW BERLIN, N. Y.—Bids are asked until Aug. 21 for repairing the reservoir, as stated in our advertising columns. E. F. Musson, Engr., Norwich, N. Y.; C. J. Pratt, Pres. Comrs.

OWEGO, N. Y.—The question of either making a new contract with the Owego Water-Works Co. or of building works is being considered. A. W. MacCallum, Supt.

PLEASANTVILLE, N. Y.—Byrne & Darling, of White Plains, N. Y., are preparing plans for works.

RIPLEY, N. Y.—The Ripley Water Supply Co. is arranging for a new water supply.

SARANAC LAKE, N. Y.—This place has voted to issue $50,000 in bonds for improving the works and $12,500 for sidewalks.

WATERTOWN, N. Y.—F. W. Streeter, Clk., writes us that the board of water-works is investigating the matter of an addition to the filtration plant. Allen Hazen, 220 Broadway, New York, is preparing a report.

MILLVILLE, N. J.—The People's Water Co. secured a contract to furnish this place with water. G. W. Payne, Mayor.

ORANGE, N. J.—Bids are asked until Aug. 19 for the purchase of $90,000 of 4% bonds for improving the works at Campbells Pond, Milburn, N. J. Henry Stetson, Mayor.

PAULSBORO, N. J.—The Paulsboro Water Co. has applied for a franchise for works and W. J. Peall and Thos. P. Strittmatte for a gas plant.

WOODSTOWN, N. J.—Reports state that the question of improving the works is being considered.

COUDERSPORT, PA.—This place will vote Aug. 17 on the question of issuing $47,225 in bonds for either buying or building works.

GREENVILLE, PA.—Reports state that the Penhale-Devitt syndicate has secured an option on the water-works, gas, electric light and heating plants at Greenville, Pa., for $250,000. The company owns the light and water-works plants at Sharon, Sharpsville, and the light plants at Youngstown, besides lines connecting Sharon with Sharpsville and South Sharon.

DILLSBURG, PA.—The Dillsburg Water Co. has been incorporated, with a capital of $15,000, by Dan'l W. Beitzel, G. W. Cook and L. C. Bushey.

PHILADELPHIA, PA.—Bids will be asked at once by W. C. Haddock, Dir. Pub. Wks., for constructing a filter plant at Torresdale. Director Haddock opened bids July 29 for $400,000 worth of work in connection with the erection of the filtration plants at Upper and Lower Roxborough. The specifications included contracts classified as Nos. 18, 19, 22, 24 and 26. The following were the bids and time promised for completion of the work: Contract No. 18—Low Service Pumping Machinery, Upper Roxborough Filters: Camden Iron Works, $26,962, seven months; P. H. & F. M. Roots Co., $25,186, seven months; Henry R. Worthington, $21,700, five months. Contract No. 19—Cast-Iron Water Pipe, Special Castings, Trenching and Pipe Laying: The bidders were Daniel J. McNichol, T. H. Lochheim, Geo. A. Vare, National Construction Co. and J. H. Wallace & Co. Nearly 30 items were bid on under this contract. Contract No. 22—Hand Traveling Crane, Low Service Station, Upper Roxborough Filters: Alferd Box & Co., $2,800, three months; Dan'l J. McNichol, $1,600, four months; North Penn Iron Co., $2,802, two months, and Wm. Sellers & Co., $2,770, six months. Contract No. 24 was for filtering materials and underdrains for Upper and Lower Roxborough filters, and sand washers Lower Roxborough filters. The National Construction Co. and Dan'l J. McNichol were the only bidders for this work. Contract No. 26—Testing Station, Torresdale Filter Plant: Patrick Gormley, $18,593; J. H. Lochheim, $12,400, and Dan'l J. McNichol, $18,175.

SCRANTON, PA.—The Pennsylvania Coal Co., which maintains a water system to supply its various mines, now proposes to enlarge its field by supplying water to private consumers in the towns and villages through which its system passes. With this end in view charters for the following companies, each capitalized at $2,500, were recently issued at Harrisburg: Central Colliery Water Co., Moosic; Avoca Borough Water Co., Yatesville Borough Water Co., Hughestown Borough Water Co., Jenkins Township Water Co., Marcy Township Water Co., Old Forge Borough Water Co., Pittston Township Water Co., Plains Township Water Co., Pittston City Water Co. The directors of each company are the same: Sidney Williams, Wm. W. Inglis, Frank H. Coughlin, Henry A. Knapp, Wm. A. May, all of Scranton.

WASHINGTON, D. C.—Bids are asked by the district commissioners until Oct. 5 for furnishing 20 water gates, and until Sept. 21 for furnishing and erecting a steam generating equipment, etc., at the Trumbull St. pumping station.

CHARLOTTE, N. C.—The question of building new works, to cost about $900,000, is being considered. Address Superintendent Campbell, of the Water Board.

KISSIMMEE CITY, FLA.—The committee is securing information for works. C. A. Carson, Chn. Com.; J. M. Wilson, Jr., Secy.

GLOSTER, MISS.—This place has voted to issue $23,000 in bonds for works and an electric plant.

OCEAN SPRINGS, MISS.—The People's Water-Works Co. has been organized to build works. Jos. Kotzum, Pres.

GALLATIN, TENN.—The council has decided to issue $6,000 of bonds for improving the works and electric plant.

KNOXVILLE, TENN.—The Knoxville Water Co. has begun the construction of improvements to the reservoir, filter plant, etc.

BRADFORD, O.—An election will soon be held to vote on the question of issuing $10,000 in bonds for works. Address Mayor Waltman.

GLENVILLE, O.—The question of building works, to cost about $40,000, is being considered. M. W. Miles, Secy. Water Bd.

HAMILTON, O.—The water-works trustees are considering the question of purchasing a 5,000,000-gallon pump and otherwise improving the works.

LOUDONVILLE, O.—John G. Bird, Clk., writes us that the question of issuing bonds for works, to cost $30,000, will probably soon be voted upon. Pop., 1,750. The town of Jeromeville, O., is also considering the question of works.

SPRINGFIELD, O.—J. S. Cook, of Toledo, O., has been engaged to submit a report on the proposed improvements for the works. Jacob Keller, Pres. Water Bd.; Ralph Boyd, Secy.; Geo. Weast, Supt.

FORT WAYNE, IND.—The citizens' committee has recommended the installation of an air compressor at station No. 1, enlargement of the discharge pipes, the purchase of an air lift plant, deep well pump, etc. Address Mayor Berghoff, Chas. McCulloch and Councilman Hosey.

GREENSBURG, IND.—The water company proposes to sink at once a deep well. Henry Emmert, Supt.

KOKOMO, IND.—The negotiations between the council and the American Water-Works Co. looking to the purchase of the works were declared off July 29. The company estimates the value of the plant at $160,000. The city engineer valued it at $130,000, but the city offered only $90,000, which was refused. The city clerk has been instructed to advertise for bids for building a new plant. The city has already drilled two 8-in. wells to a depth of 250 ft., which, under a two days' test, with two large compressed air pumps, show a flow of 3,000,000 gallons of pure water every 24 hours.

ANN ARBOR, MICH.—Riggs & Sherman, of Toledo, O., are making an appraisement of the works of the Ann Arbor Water Co., with a view to the city purchasing the same.

BARAGA, MICH.—This place has voted to issue $20,000 in bonds for works.

DETROIT, MICH.—Clarence W. Hubbell, Engr. Water Bd., writes us that he has been instructed by the commissioners to prepare plans, specifications and estimates for a 10-ft. brick tunnel,, about 4,100 ft. long, to extend from the present pumping station to a proposed intake crib in the river opposite head of Belle Isle; estimated cost is not less than $200,000.

DOWAGIAC, MICH.—The council is considering the question of purchasing a new pump.

BELLEVILLE, ILL.—The Belleville Deep-Well Water Co. has been awarded the contract, at $12,000 for furnishing this city with a temporary water supply. J. B. Hay, Mayor; Adam Wellmuenster, Water Comr.

BREESE, ILL.—J. O. Koch, H. Hummert and A. J. Helwig are securing subscriptions for the proposed works, to cost about $15,000. F. Dorries, Jr., Mayor.

CARBONDALE, ILL.—The Carbondale Water-Works Co. has been incorporated, with a capital of $40,000, by John H. Barton, J. L. Kimmel and A. H. Bayston.

PEORIA, ILL.—The Peoria Water Co. is considering the question of laying additional mains. H. B. Morgan, Gen. Mgr.

EVANSVILLE, WIS.—This place has voted for works, to cost about $50,000, construction on which was commenced this week.

MILWAUKEE, WIS.—Bids are asked until Aug. 12 for water and sewer connections. C. J. Poetsch, Cy. Engr.

PORTAGE, WIS.—This place has voted to purchase the works.

LANSING, IA.—This place has voted to order the council to either purchase the present artesian well system or to establish another system.

SOLON, IA.—Bids are asked until noon Aug. 9 for constructing works. J. S. Bittner, Mayor.

WEBSTER, IA.—This place voted Aug. 5 on the question of issuing $5,000 in bonds for works.

MINNEAPOLIS, MINN.—Bids are asked until Aug. 30 for furnishing 45 tons of cast-iron work, 72 tons of structural steel work, 259 lbs. of brass, seven sluice gates, 36 × 48 ins., etc. Check, $500. L. A. Lydiard, Cy. Clk. We are informed that the contract for two 15,000,000-gallon vertical triple-expansion pumping engines of the self-contained type has been let to the Holly Mfg. Co., of Lockport, N. Y., at $100,800 for the first engine and $100,000 for the second. Geo. Cook, Boston Block, has been awarded the contract, at $45,700, for building the foundation, etc., for the new N. E. pumping station. G. W. Sublette, Cy. Engr.; E. R. Dutton, Asst. Cy. Engr.

MORTON, MINN.—Bids are asked until Aug. 19 for furnishing the materials and for constructing works. W. W. McGowan, Recdr.

ST. PAUL, MINN.—Wm. Porten has submitted the lowest bid, at $6,949, for constructing a brick and stone pumping station, with wooden roof, at Lake Vadnais.

CHERRYVALE, KAN.—The council has offered the Cherryvale Water Co. $11,000 for the works.

CLIFTON, KAN.—This place will soon vote on the question of issuing $5,000 in bonds for works.

COFFEYVILLE, KAN.—The city engineer has reported that improvements to the works costing $18,000 will soon be necessary. The matter of improving the works at Independence, Kan., is also being considered.

NATIONAL MILITARY HOME, KAN.—Bids are asked until Aug. 14 for 4,400 ft. of 10-in. water mains, steel ceilings, plumbing, etc., for the barracks, etc. J. G. Rowland, Governor.

STAFFORD, KAN.—Reports state that this place will soon vote on the question of building works and an electric plant.

LINCOLN, NEB.—The council has accepted the proposition of Jos. Burns to furnish this city with water at the rate of 10 cts. a 1,000 gallons. E. A. Campen, Cy. Engr.

WYMORE, NEB.—A test well for a water supply has been driven. Dr. C. C. Gafford, Chn. Com.

KAHOKA, MO.—Geo. W. Henry, Cy. Clk., writes us that this place has voted to issue bonds for works and an electric plant. The bids for the purchase of $12,500 of bonds for the same were received Aug. 5. Geo. C. Morgan, Consult. Engr., Royal Insurance Bldg., Chicago.

KANSAS CITY, MO.—Alderman Wyne will probably introduce a measure at the next council meeting providing for the issuance of $250,000 in bonds for the improvement of the works.

PARIS, MO.—J. A. Bendeur, of Kansas City, Mo., has been awarded the contract, at $21,000, for building works and an electric plant.

HARRISON, ARK.—C. A. Reese, of Fayetteville, Ark., has been engaged to make surveys for works and a sewerage system to cost $50,000. G. J. Cramp, Pres.; P. C. Maggard, Secy. Comn.

MALVERN, ARK.—It is proposed to issue $20,000 in bonds for water-works and an electric plant.

BAIRD, TEX.—This place has voted to issue $4,500 in bonds for improving the works.

KAUFMAN, TEX.—This place has voted to issue $20,000 in 4% bonds for works.

WACO, TEX.—Chester B. Davis, Wall St., New York, has been engaged to investigate the cost of new works, for which $300,000 were recently voted. Address Mayor Riggins.

ANTLERS, COLO.—Theo. Rosenburg, Colorado Springs, Colo., is preparing plans for rebuilding the Antlers dam, which was partly destroyed several years ago, after having cost about $175,000.

ELRENO, OKLA. TER.—The Elreno City Water Co. proposes to improve its works. W. H. Swartzel, Mgr.

MUSKOGEE, IND. TER.—Plans, specifications and estimates will be received until Sept. 10 for works to cost about $150,000. The engineer whose plans are accepted will receive $500. Plans, etc., for a sewerage system will be considered later. An election to vote on the question will be held Aug. 27. P. J. Byrne, Mayor; D. H. Middleton, Chn. Com.

HUNTINGTON, ORE.—The Huntington Light & Artesian Water Co. has been granted a franchise for works and an electric plant. Porter, White & Co. are interested.

KERN CITY, CAL.—H. A. Williams, Town Engr., writes us that the proposed works will cost about $36,000, the supplies for which have already been purchased. H. Van Houten, Engr., San Francisco, Cal.

OROVILLE, CAL.—J. M. Goodwin will have charge of the construction of the proposed works for the Oroville Water Co.

PASADENA, CAL.—Work will soon be begun on the proposed improvements to the water-works.

VALLEJO, CAL.—It is proposed to lay a new water main from Creston and make other improvements, at a cost of $120,500.

BOISE, IDAHO.—The Stanley Basin Power & Water Co. has been organized with a capital of $500,000, to build a power plant and a pipe line six miles long, with a fall of 1,000 ft. F. Steunenberg, Pres.; Gen. J. L. Weaver, Secy.

CALDWELL, IDAHO.—An election will be held Aug. 21 to vote on the question of issuing $18,000 of bonds for works.

SALT LAKE CITY, UTAH.—Bids are asked until Aug. 12 for constructing the City Creek pipe line, to cost $48,000. The bids received last week, and which have been rejected, are given in the Contract Prices. L. C. Kelsey, Cy. Engr.

LEVIS, QUE.—J. C. Lewis is reported to have submitted a proposition for putting in works.

GREENWOOD, B. C.—It is proposed to build works at once. Address D. D. Hardy.

PHOENIX, B. C.—This place will soon vote on the question of granting a franchise for works and an electric plant.

PEMBROKE, ONT.—This place will vote Aug. 13 on the question of purchasing a new pump, extending the works, paving, sewers, etc.

CONTRACT PRICES.

DRAINAGE SYSTEM.—New Orleans, La.—The following bids were received by the Drainage Commission July 24 for building pumping stations, canals, etc., for the proposed drainage system; contract awarded United States Construction Co.; Nash & Dowdle bid is for Morris pumps; United Engineering & Contracting Co.'s bid calls for vertical shafts:

BIDS RECEIVED AT NEW ORLEANS, LA., JULY 24, 1901, FOR CONSTRUCTING DRAINAGE SYSTEM.

Contract J.—St. Bernard, Pumping Station No. 3.

Quantities.		Nash & Dowdle, Chicago.	United Engineering & Contracting Co., New York.	U. S. Const'n Co., Milwaukee, Wis.	National Contracting Co., New York.
Excavation, delivered on bank, within 300 ft. meas. in pit.	8,000 cu. yds.	$0.65	$1.00	$0.56	$0.67
Refilling with excavated material, measured in space filled	1,000 " "	.65	.30	.50	.40
Dry filling, as sand, bats, old mortar, etc., meas. in place.	200 " "	1.70	1.30	1.25	1.40
Hauling to spoil bank, per 1,000 ft. per cu.yd.,meas. in pit	500 " "	.24	.25	.30	.30
Pumping station, complete above floor line		137,000	112,825	111,100	128,430
Power transmission and telephone lines from central statn		12,000	12,000	11,900	
Brick laid—mortar: 1 Portland cement to 3 sand	1,500 cu. yds.	8.48	9.50	8.10	8.82
Concrete made of shells and mortar of 1 P. cemt to 3 sand	500 " "	5.94	7.50	7.20	7.20
¾-in. cement paving (1 Portland cement to 1 sand)	600 sq. yds.	.65	.65	.65	1.32
6-in. concrete slabs (stone and expanded metal No. 10)	100 " "	2.40	1.25	2.25	2.40
4-in. concrete slabs (stone and expanded metal No. 10)	100 " "	2.00	1.65	1.75	2.00
Rolled steel, painted at mill and in the work	5 tons	70.00	65.00	58.00	48.00
Buckle plates, painted at mill and in the work	1 "	100.00	80.00	80.00	80.00
Wrought iron, painted at mill and in the work	1 "	70.00	85.00	80.00	84.00
Cast iron, painted at the mill and in the work	2 "	55.00	50.00	70.00	72.00
Yellow pine lumber for capping, flooring, bracing, etc	200 M. ft.	26.00	25.00	23.00	30.00
Sheet piling, driven, including iron for fastening	120 " "	29.00	35.00	30.00	31.00
Yellow pine piling in place in lengths as directed	80,000 lin. ft.	.20	.25	.24	.21
8-in. vitrified clay pipe	100 " "	.20	.30	.25	.27
6-in. vitrified clay pipe	100 " "	.14	.25	.20	.18
4-in. vitrified clay pipe	100 " "	.10	.20	.15	.15
Broken stone or clean gravel in place as back filling	50 cu. yds.	1.95	2.00	2.50	2.34
Oyster shells	50 " "	1.65	2.20	1.50	1.56
Total		$197,364	$182,265	$173,170	$180,035

Alternate bids.—Nash & Dowdle for Root's pump, $136,000; brick laid in mortar of 1 part American natural cement and 2 parts sand, 1,500 cu. yds., $7.35; concrete made of shells and mortar of 1 part American natural cement and 2 parts sand, 500 cu. yds., $4.74; United Engineering & Contracting Co., another bid on pump, $122,750; power transmission line and telephone line from central station, $10,700; brick laid in American natural cement and 2 parts sand, etc., $8.75; concrete of shells with American natural cement, etc., $6.75; U. S. Construction Co., power transmission line, $10,683; brick laid in American natural cement, etc., $7.05; concrete of shells, with American natural cement, etc., $5.15; National Contracting Co., pump and transmission line, $127,213; brick in American natural cement, etc., $8.52; concrete of shells, with American natural cement, etc., $6.90. Alternate bids for pumps submerged (the first bids call for pumps at floor line), are the same as above, with the following change in quantities: Excavation, 16,000 cu. yds.; refilling with excavation material, 2,500 yds.; dry filling, 200 yds.; hauling to spoil bank, 500 yds.; brick laid in mortar of 1 part Portland cement and 3 parts sand, 3,500 cu. yds; 1 part American natural cement and 2 parts sand (alternate), 3,500 yds.; concrete made of shells and mortar of 1 part Portland cement and 3 parts sand, 1,800 yds.; 1 part American natural cement and 2 parts sand, (alternate), 1,800 yds.; ¾-in. cement paving, made of 1 part Portland cement and 1 part sand, 600 sq. yds.; 6-in. concrete slaps, 100 yds.; 4-in. slab, 100 yds.; rolled steel, 65 tons; buckle plates, 5 tons; wrought iron, 1 ton; cast iron, 2 tons; yellow pine lumber, 200,000 ft. B. M.; sheet piling driver, 150,000 ft., B. M.; yellow pine piling, 75,000 lin. ft.; 8, 6 and 4-in. vitrified clay pipe, 100 ft. of each; broken stone or clean gravel, 50 yds.; oyster shells, 50 yds. Nash & Dowdle, pump, etc., Morris, $149,000; United Engineering & Con. Co., pump, etc., $134,500; U. S. Const'n Co., pump, etc., $127,100; Nat. Contracting Co., pump and line, $149,948; alternate, $148,731.

Contract J.—Lined and Covered Canals, Third St. System.

Quantities.		Nash & Dowdle.	U. S. Const'n Co.	National Contr'g Co.
Excavation delivered to spoil bank within 500 ft. or back filled	43,000 cu. yds.	$0.74	$0.87	$0.78
Delivered to spoil bank beyond 500 ft. per addtl 1,000 ft.	23,000x9 "	.14	.10	.08½
Brick laid in mortar (1 American natural cem. to 2 sand)	4,500 "	7.35*	7.25*	7.80*
Same (1 Portlandt cement to 3 sand)	4,500 "	8.48	8.20	8.40
Concrete and steel covers of conduits, 6-ft. span	2,400 sq. yds.	2.12	2.33	2.30
" " " " " " 8-ft. "	1,700 "	2.52	2.75	2.80
" " " " " " 10-ft. "	3,000 "	2.90	3.12	3.15
" " " " " " 12-ft. "	100 "	3.25	3.48	3.70
" " " " " " 14-ft. "	100 "	3.65	3.87	4.10
Concrete (shells and mortar; 1 Am. nat. cemt. to 2 sand)	3,300 cu. yds.	4.74*	5.10*	6.55*
Same (1 Portland cement to 3 sand)	3,300 "	6.41	6.70	7.20
¾-in. concrete surfacing (1 Portland cemt. to 1 sand)	6,700 sq. yds.	.65	.70	.60
Rolled steel beams, painted at mill and in the work	200 tons	68.00*	58.00*	60.00*
Wrought iron (same conditions)	3 "	70.00*	80.00*	80.00*
Cast iron (same conditions)	100 "	50.00*	55.00*	55.00*
Yellow pine piling driven	26,000 lin. ft.	.21*	.25*	.35*
Yellow pine lumber as capping, flooring, etc	140,000 ft.,B.M.	26.50*	22.00*	28.00*
Cypress planking laid on sub-grade under foundations	370,000 "	18.00	20.00	15.00
36-in. vitrified clay pipe	6,000 lin. ft.	3.29	3.75	4.30
24-in. " " "	800 "	1.20	1.25	1.39
18-in. " " "	600 "	.79	.68	.80
15-in. " " "	450 "	.56	.49	.59
12-in. " " "	300 "	.40	.43	.41
8-in. " " "	1,600 "	.20	.25	.24
6-in. " " "	1,100 "	.14	.20	.18
Oyster shells in place	750 cu. yds.	1.60	1.40	1.20
Sand in place	600 "	1.55*	2.00*	1.80*
Cinders in place	600 "	1.80	1.25	1.05
Old stone curbing removed, redressed and reset	8,400 sq. ft.	.24	.12	.16
Lake shells in place	100 cu. yds.	1.65	2.50	2.35
New cypress curbing in place	50,000 ft.,B.M.	24.00	27.00	25.00
New stone curbing 3 ins. thick in place	500 sq. ft.	.40	.57	.60
Asphalt pavement, taken up and relaid	600 sq. yds.	3.15	3.00	3.00
Vitrified brick pavement, taken up and relaid	100 "	1.70	2.20	1.70
Gravel pavement (same operation)	6,000 "	.55	1.50	.50
Square block pavement (same operation)	100 "	.75	.75	.90
Cobblestone pavement (same operation)	100 "	.20	.65	.20
Total		$183,226	$190,303	$180,877

*Alternate bids. †Awarded contract.

WATER MAINS, ETC.—Sault Ste. Marie, Mich.—We are informed that the following bids were received June 17, 1901, for laying water mains, etc.:

Quantities.		J. H. Greene.	J. F. Arnott.	*Thos. Dewan.	R. W. Roberts.
20-in. pipe	12,080 ft.	$9,900	$9,448	$9,248	$11,476
24-in. "	2,700 "	2,808	2,700	2,430	3,020
18-in. "	2,000 "	1,560	1,300	1,240	2,000
16-in. "	3,600 "	3,528	3,110	2,700	4,410
8-in. "	1,200 "	768	576	504	840
8-in. "	275 "				
6-in. "	310 "	234	177	154	246
Total		$18,804	$17,375	$14,276	$22,002

*Awarded contract.

SEWERS.—Sault Ste. Marie, Mich.—J. A. Lawrie, Cy. Engr., writes us that the following bids were received June 17, 1901, for constructing sewers; the quantity of earth is 20,226 yds., boulders 3,108 yds., and rock 6,821 yds.: (1) bid of C. S. Beadle, Sault Ste. Marie (accepted); (2) James Healy, Chicago, Ill.; (3) R. W. Roberts, Sault Ste. Marie, Mich. J. F. Arnott, Sault Ste. Marie; J. H. Greene, Appleton, Wis.:

	1.	2.	3.	4.	5.
Earth	$0.50	$1.90	$1.55	$1.60	$1.47
Boulders	1.50	3.70	3.60	3.35	3.25
Rock	2.75	4.40	4.15	4.00	3.85
Manholes	2.50	2.20	1.00	1.75	1.70
Catchbasins	3.25	3.20	3.50	2.00	2.60
Drain wells	18.00	16.00	11.50	12.00	8.00
Lumber	10.00	26.00	25.00	19.50	18.00
Total	$38,403	$79,692	$73,407	$70,864	$65,848

All bids above noted as alternate bids are not included in the totals at the bottom of the various columns; the totals of the alternate bids are as follows: Contract J—Nash and Dowdle, $181,698; U. S. Const'n Co., $187,756; National Contracting Co., $186,734; St. Louis Expanded Metal & Fireproofing Co., imported Portland cement, concrete and steel covers of conduits of 6-ft. span, $2.33; 8-ft., $2.75; 10 ft., $3.12; 12-ft., $3.48; 14-ft., $3.87; with American Portland cement for same sizes, $2.22, $2.61, $2.96, $3.30, and $3.67, respectively; Expanded Metal & Fireproofing Co., with American Portland cement, 6-ft., $2.10; 8-ft., $2.30; 10-ft., $2.30; 12-ft., $2.55; 14-ft., $2.55. Contract K—The bids are the same as Contract J, except the bid of the Nat'l Cont. Co., the U. S. Const'n Co. bid 12 cts. for delivering to spoil bank; totals, Nash & Dowdle, $187,450, alternate, $188,316; United Engineering & Contracting Co., alternate, $209,489; U. S. Construction Co., $197,746, alternate, $197,513; National Contracting Co., alternate, $196,536. The items in the stub of Contract K are the same as Contract J.

Contract M.—Lined and Covered Canals, Lowerline System.—

Quantities.		National Contracting Co.
Excavation or back fill	53,000 cu. yds.	$0.80
Delivered to spoil bank	20,000×2 "	.09
Brick laid in mortar (1 to 2)	6,100 "	8.00*
Same (1 Prtld cem to 3 sand	6,100 "	9.00
Concrete and steel conduit covers:		
6-ft. span	4,000 sq. yds.	2.38
8-ft. "	3,200 "	3.00
10-ft. "	100 "	3.30
12-ft. "	100 "	3.60
14-ft. "	100 "	4.15
Concrete of shells and mortar of		
1 Am. nat. cem. and 2 sand	4,800 cu. yds.	6.50*
1 Portland cem. and 3 sand	4,800 "	6.95
Surfacing, ¾-in. thick	10,000 sq. yds.	.62
Rolled steel, painted	200 tons	60.00*
Wrought iron	2 "	80.00*
Cast iron	100 "	55.00
Y. pine piling driven	200 lin. ft.	.40*
Lumber, &c.	5,000 ft.,B.M.	30.00*
Cypress planking laid	530,000 "	17.00
36-in. vitrified clay pipe	4,000 lin. ft.	4.50
24-in. " " "	600 "	1.40
18-in. " " "	2,000 "	.80
15-in. " " "	400 "	.60
12-in. " " "	400 "	.40
8-in. " " "	1,500 "	.23
6-in. " " "	1,800 "	.17
Oyster shells in place	1,100 cu. yds.	1.65
Sand in place	350 "	1.80*
Cinders in place	350 "	1.75
Curbing removed & reset	200 sq. ft.	.16
Lake shells in place	200 cu. yds.	2.20
New cypress curbing in place	100,000 ft.,B.M.	25.00
Stone curbing, 3 ins. thick	200 sq. ft.	.60
Pavements, taken up and relaid:		
Asphalt	250 sq. yds.	3.00
Vitrified brick	100 "	1.60
Gravel	400 "	.60
Square block	100 "	.85
Cobblestone	100 "	.20
Total		$197,961

*Alternate bids.

Contract M.—All bids the same as Contract J, except those of the National Contracting Co. and the following excavation delivered to spoil bank, 90 cts.; delivered beyond 500 ft., 12 cts.; alternate mortar, $7.35; mortar with Portland cement, $8.25; 24-in. pipe, $1.20; lake shells, $2.25; totals, Nash & Dowdle, $183,797 (accepted), alternate, $170,191; U. S. Construction Co., $196,911 and $182,256; National Contracting Co., alternate, $191,043.

Contract K.—Lined and Covered Canals, St. Bernard System.

Quantities.		United Engineering & Cont. Co.	National Cntrctg Co.
Excavation to bank	47,000 cu. yds.	$1.10	$0.75
Beyond 500 ft.	30,000×3 "	.10	.08
Brick laid (1 : 2)	5,800 "	8.75*	7.80*
Portland (1 to 3)	5,800 "	9.25	8.05
Covers of conduits:			
6-ft. span	4,000 sq. yds.	1.95	2.20
8-ft. "	900 "	2.45	2.65
10-ft. "	4,000 "	2.45	3.00
12-ft. "	300 "	2.95	3.55
14-ft. "	200 "	3.45	3.90
Concrete of shells and mortar:			
1 nat. cem. to 2 sd	4,000 cu. yds.	6.10*	6.55*
1 Prtld cm. to 3 sd	4,000 "	6.75	6.90
Surfacing, ¾-in	9,000 sq. yds.	.65	.60
Rolled steel beams	250 tons	56.30*	60.00*
Wrought iron	4 "	78.50*	80.00*
Cast iron	130 "	45.00*	55.00*
Y. pine piling driven	41,000 ft.,B.M.	.25*	.35*
Lumber	225,000 "	22.00*	28.00*
Cypress planking	464,000 "	20.00	15.00
36-in. vit. clay pipe	2,800 lin. ft.	3.50	4.15
24-in. " " "	1,200 "	1.00	1.28
18-in. " " "	900 "	.60	.77
15-in. " " "	500 "	.45	.56
12-in. " " "	300 "	.35	.40
8-in. " " "	600 "	.25	.23
6-in. " " "	1,800 "	15	.17
Oyster shells in place	1,000 cu. yds.	1.30	1.20
Sand in place	800 "	1.50*	1.80*
Cinders in place	800 "	1.30	.95
Curbing removed, &c	17,000 sq. ft.	.12	.15
Lake shells in place	500 cu. yds.	1.90	2.00
Cypress curbing	20,000 ft.,B.M.	25.00	25.00
Stone curbing, 3-in.	1,000 sq. ft.	.65	.50
Pavements taken up and relaid:			
Asphalt	100 sq. yds.	3.00	2.40
Vitrified brick	800 "	1.50	1.45
Gravel	100 "	1.25	.60
Square block	4,500 "	.25	.75
Cobblestone	7,000 "	.25	.13
Total		$200,770	$180,616

*Alternate bids.

Contract L, Lined and Covered Canals, Nashville System.—Excavation delivered to spoil bank, 55,000 cu. yds.; delivered to spoil bank beyond 500 ft., per additional 1,000 ft., 16,000 × 3 yds.; brick laid in mortar of 1 part American natural cement and 2 parts sand (alternate) 6,000 yds.; 1 Portland cement and 3 sand, 6,000 yds; concrete and steel covers of conduits: 6-ft. span, 4,200 sq. yds.; 8-ft., 1,000 yds.; 10-ft., 1,300 yds.; 12-ft., 3,000 yds.; 14-ft., 100 yds.; concrete made of shells and mortar of 1 part American cement and 2 parts sand (alternate) 4,500 cu. yds.; 1 part Portland cement and 3 parts sand, 4,500 yds.; concrete surfacing ¾-in. thick of 1 part Portland cement and 1 part sand, 9,000 sq. yds.; rolled steel beams (alternate), 280 tons; wrought iron (alternate), 5 tons; cast iron (alternate), 140 tons; last three items are to be painted at mill and in the work; yellow pine piling driven, (alternate), a M ft.; lumber as capping, flooring, etc., including iron (alternate), a M ft.; cypress planking laid on sub-grade under foundations, 500,000 ft.; 36-in. vitrified clay pipe, 5,000 lin. ft.; 24-in., 700 ft.; 18-in., 1,400 ft.; 15-in., 400 ft.; 12-in., 300 ft.; 8-in., 1,100 ft.; 6-in., 1,500 ft.; oyster shells in place, 1,000 cu. yds.; sand in place (alternate), 400 yds.; cinders, 400 yds.; old stone curbing removed, redressed and reset, 200 sq. ft.; lake shell in place, 200 cu. yds.; new cypress curbing in place, 80,000 ft. B. M.; new stone curbing 3 ins. thick, in place, 200 sq. ft.; asphalt pavement, taken up and relaid, 300 yds.; vitrified brick pavement (same as asphalt), 100 yds.; gravel, 3,800 yds.; square block, 100 yds.; cobblestone, 100 yds. All bids the same as Contract J, except the following: U. S. Construction Co., delivering to spoil bank beyond 500 ft., 25 cts.; brick laid in mortar of Portland cement., $8.25, alternate, $7.35; lake shells, $2.25; brick paving, $2; National Contracting Co., mortar of Portland cement, $8.70; 10-ft. span, $3.20; 12-ft., $3.60; 14-ft., $4.15; yellow pine piling, 40 cts.; lumber $30; 15-in. pipe, $1.40; 12-in., 56 cts.; 8-in., 40 cts.; 6-in., 17 cts.; oyster shells, $1.60; cinders, $1.70; old stone, curbing, etc., 17 cts.; lake shells, $2.15; cypress curbing, $26; brick paving, $1.60; square block paving, 85 cts.; totals, Nash & Dowdle, $194,416 (accepted); alternate, $196,892; U. S. Co., $216,200 and $219,304; National Co., $202,650 and $220,570.

Contract O.—Open and Unlined Canals, Algiers System.

Quantities.		J. J. Keegan (acceptd.)	Nash & Dowdle.	U. S. Const'n Co.
Excavation*	45,000 cu. yds.	$0.265	$0.99	$0.47
Hauling, 3,000 ft	10,000 "	.14	.20	.25
Lumber	25,000 ft.,B.M.	22.50	37.50	30.00
Total		$13,888	$47,488	$24,400

*Delivered to spoil bank within 200 ft. The hauling is to bank within 3,000 ft.; and the yellow pine is for bridges, culverts, etc., including iron.

Contract N.—Lined and Covered Canals, Algiers System.

Quantities.		Nash & Dowdle.	J. McCoy, New Orleans.†	U. S. Const'n Co.	National Contractg Co.
Excavation delivered to spoil bank within 500 ft., or bk. fill	25,000 cu. yds.	$0.74	$0.53	$0.87	$0.85
Delivered to spoil bank beyond 500 ft., per addt'l 1,000 ft.	7,000×2 "	.14	.06	.25	.10
Brick laid in mortar of 1 Am. nat. cemt. and 2 sand	3,000 "	7.85*	9.29*	7.75*	9.50*
Same in 1 Portland cement and 3 sand	3,000 "	8.98	9.54	8.75	10.00
Concrete-steel covers of conduits of 6-ft. span	1,000 sq. yds.	2.18	2.33	2.33	2.40
" " " " " 8-ft. "	200 "	2.60	2.75	2.75	3.00
" " " " " 10-ft. "	200 "	2.97	3.12	3.12	3.35
" " " " " 12-ft. "	100 "	3.33	3.48	3.48	3.60
" " " " " 14-ft. "	100 "	3.72	3.87	3.87	4.00
Concrete made of shells and mortar, 1 Am nat cem : 2 sand	2,100 cu. yds.	5.24*	4.80*	5.75*	6.50*
Same of 1 Portland cement and 3 sand	2,100 "	6.99	5.90	7.35	7.10
Concrete surfacing, ¾-in. thick, of 1 Prtld cemt and 1 sd	4,500 sq. yds.	.74	.54	.70	.65
Rolled steel beams, painted at mill and in the work	20 tons	69.50*	60.00*	58.00*	61.00*
Wrought iron (same conditions)	1 "	73.00*	65.00*	80.00*	81.00*
Cast iron (same conditions)	15 "	55.00*	50.00*	55.00*	57.00*
Yellow pine piling driven	200 lin. ft.	.24*	.25*	.25*	.40*
Lumber for capping, flooring, etc., including iron	10,000 ft.,B.M.	27.50*	24.80*	22.00*	30.00*
Cypress planking laid on sub-grade under foundations	250,000 "	21.00	17.00	21.00	18.00
36-in. vitrified clay pipe	1,800 lin. ft.	3.33	4.45	4.00	5.00
24-in. " " "	200 "	1.25	1.20	1.30	1.50
18-in. " " "	900 "	.85	.79	.73	.90
15-in. " " "	200 "	.60	.60	.52	.65
12-in. " " "	200 "	.49	.43	.43	.45
8-in. " " "	500 "	.29	.24	.25	.25
6-in. " " "	700 "	.19	.18	.20	.20
Oyster shells in place	500 cu. yds.	2.00	1.45	1.40	1.65
Sand in place	150 "	1.75*	1.50*	2.00*	1.85*
Cinders in place	150 "	2.00	1.17	1.35	1.75
Stone curbing removed, redressed and reset	100 sq. ft.	.29	.08	.12	.16
Lake shells in place	100 cu. yds.	2.00	1.92	2.50	2.10
New cypress curbing in place	40,000 ft.,B.M.	25.00	30.00	28.00	25.00
New stone curbing, 3 ins. thick, in place	100 sq. ft.	.65	.45	.60	.60
Asphalt paving, taken up and relaid	100 sq. yds.	4.25	3.00	3.00	2.50
Vitrified brick pavement, taken up and relaid	100 "	1.95	2.50	2.20	1.60
Gravel pavement, taken up and relaid	100 "	.75	1.35	1.50	.60
Square block pavement, taken up and relaid	100 "	.95	.50	.75	.85
Cobblestone pavement, taken up and relaid	100 "	.30	.30	.65	.20
Total		$85,577	$78,561	$91,301	$92,959

*Alternate bids. †Awarded contract.

PIPE LINE.—Salt Lake City, Utah.—The following bids were received July 26, 1901, for constructing the City Creek pipe line; the bids, being rejected as too high, new ones are wanted until Aug. 16; L. C. Kelsey, Cy. Engr.:

Quantities.		P. J. Moran.	N. P. Glann Co.	C. Keifer & Rush.	Green & Reeve Co.
Excavating	9,500 cu. yds.	$0.55	$0.66	$0.40	$0.60
Backfilling	6,500 " "	.17	.11¾	.15	.20
24" pipe*	5,920 lin. ft.	6.25	5.55	5.695	7.35
20" "	845 " "	5.40	4.50	4.57	5.45
16" "	790 " "	3.40	3.20	3.04	3.75
24" valves	2 each	318.00	300.00	313.87	332.00
20" "	1 "	163.00	200.00	203.62	172.00
16" "	2 "	87.00	106.00	108.69	95.00
Specl cstgs.	6,000 lbs.	.055	.03	.04	.06
Masonry:					
Brick	30 cu. yds.	11.00	9.00	26.00	13.00
Concrete	30 " "	9.50	9.00	18.50	10.50
Cut-stone	30 " "	28.00	15.00	25.00	32.00
Cemt plaster.	500 sq. yds.	.38	.50	.65	.40
Total		$53,507	$48,652	$48,451	$61,331

SEWERAGE.

PORTSMOUTH, N. H.—Plans have been completed for a sewerage system for the navy yard.

BEVERLY, MASS.—An order has been passed by the aldermen authorizing several miles of sewers to be built, at an estimated cost of $20,000.

SPRINGFIELD, MASS.—The aldermen have authorized the construction of sewers in three streets, to cost $25,000.

WHITINSVILLE, MASS.—It was voted on July 29 to appropriate $2,200 to engage engineers to draw plans and make specifications for a sewage disposal plant.

PROVIDENCE, R. I.—A resolution has been passed by the council authorizing the issue of $100,000 bonds for sewer construction.

ENDICOTT, N. Y.—Bids are asked until Aug. 10 for constructing sewers, approximately 1,822 ft. of 30-in. pipe and 6,293 ft. of 24-in. pipe. Endicott & Johnson.

SARATOGA SPRINGS, N. Y.—Snow & Barbour have been engaged to prepare plans and specifications for a system of sewage disposal. H. F. Thomas, Clk. Sewer, Water and Street Commission.

MADISON, N. J.—It was voted on July 22 to have plans and specifications prepared for a sewerage system.

WOODBURY, N. J.—The American Artificial Stone Pavement Co. has been awarded the contract for constructing a sewerage system, at $48,826.

BEAVER, PA.—The sewer committee is preparing plans for $8,000 worth of sewers, and will ask for bids at once.

NEW CASTLE, PA.—Bids are asked until Aug. 12 for constructing 15,870 ft. of sewers. John C. Jackson, Cy. Clk.

SHARON, PA.—The following bids were received July 29 for constructing sewers: S. W. Kelley, New Brighton, $133,227; Wm. McMeachan, Toledo, O., $109,211; Wm. McIntyre, Sr. (accepted), $107,270; J. B. Sheets, $111,465; J. B. Sheets (old canal), $114,153; S. W. Parshall, Akron, O., $134,877; Sweeney & Huston, $162,000.

SHARPSVILLE, PA.—The question of building a system is being considered. Dr. A. E. Cattron, Chn. Com.; G. D. Devitt and W. W. Kitch may be addressed.

WILKINSBURG, PA.—Bids are asked until Aug. 10 for 1,600 ft. of pipe sewers. Frease & Spirling, Engrs.

WASHINGTON, D. C.—The commissioners have accepted the proposal of the Allis-Chalmers Co., of Milwaukee, to furnish and erect the pumps and boilers for the new sewage pumping station, for $253,000.

WASHINGTON, D. C.—Bids are asked by the district commissioners until Aug. 31 for constructing sewers, as stated in our advertising columns.

WILMINGTON, N. C.—It has been decided not to hold an election to vote on the question of issuing $100,000 in bonds for sewers. A committee has been appointed to confer with the Wilmington Sewerage Co. about building a system.

GRIFFIN, GA.—Thos. Nail, Cy. Clk., writes us that no definite action will be taken until October towards installing a sewerage system.

PARIS, KY.—The survey of the city has been completed and complete plans for a sewerage system are to be prepared.

ASHLAND, O.—L. E. Chapin, Canton, O., is preparing preliminary plans for a sewerage system.

CANTON, O.—Bids are asked until Aug. 12 for about 5,000 ft. of sewers. P. H. Weber, Cy. Engr.

CLEVELAND, O.—Resolutions have been adopted by the council ordering sewers to be constructed in 34 streets. Chas. W. Toland, Cy. Clk.

CONNEAUT, O.—Plans for a sewerage system for districts 3 and 4 have been prepared by Geo. S. Pierson, C. E., Kalamazoo, Mich.

EAST CLEVELAND, O.—Ford P. Beers, Cleveland, was awarded the contract on July 27 for constructing septic tanks, etc., at $16,224. The only other bid was that of R. P. Burnett, Cleveland, $16,750. H. B. Chapman, Village Clk.

MT. VERNON, O.—Ralston & Stoyle were the only bidders on the Gambier St. sewer. Their bid was $2,899. Will A. Hosack, Cy. Clk.

IRVINGTON, IND.—Bids are asked until Aug. 17 for constructing sewers in five streets. Simeon Frazier, Town Clk.

NEW CASTLE, IND.—Plans and specifications for about 2½ miles of sewers are being prepared, and the contract will soon be let. W. H. Adams, Cy. Clk.

PAW PAW, MICH.—This place is considering the question of installing a sewerage system to cost $6,430.

WYANDOTTE, MICH.—Mayor Wm. Campbell writes us that plans for a sewerage system have been prepared by J. D. Cook, Toledo, O., and that the question of installing a system will soon be submitted to vote.

MADISON, WIS.—Plans and specifications have been prepared by the city engineer for sewers in several streets. O. S. Norsman, Cy. Clk.

CEDAR RAPIDS, IA.—Resolutions have been passed by the council ordering vitrified pipe sewers in several streets. J. D. Blain, Recorder.

CANYON CITY, COLO.—L. C. Hall, Cy. Engr., writes us that preliminary surveys will be completed and bids asked for about Sept. 2 for about 8 or 9 miles of 8 to 24-in. sewers.

GUTHRIE, OKLA. TER.—T. A. White, Cy. Engr., writes us that the city will build a sewerage system to cost $65,000, water-works to cost $30,000, city hall, etc. The conditions surrounding this city are peculiar and the work will demand treatment different from the usual forms in similar cases.

ROSWELL, N. M.—An election will be held on Aug. 20 to vote on the question of issuing $35,000 in bonds for a sewerage system.

SPOKANE, WASH.—The council has passed ordinances providing for sewers, water mains and grading in several streets. L. F. Boyd, Cy. Clk.

OTTAWA, ONT.—Plans are being prepared by City Engineer Kerr for sewers in various parts of the city.

WINNIPEG, MAN.—Bids are asked until 8.30 p. m., Aug. 8, for furnishing 16,000 ft. of 12, 15 and 18-in. sewer pipe, 660 junctions, etc. C. J. Brown, Cy. Clk.

STREETS AND ROADS.

BOSTON, MASS.—John F. McBride and Jesse Moulton have been awarded a contract for grading, etc., in Brooks St., at $23,790.

LOWELL, MASS.—The council has voted to issue $81,000 in bonds for paving.

MIDDLEFIELD, MASS.—Kiely & Gleason, Northampton, have been awarded a contract for street work, at $9,700.

NEW HAVEN, CONN.—Bids are reported asked until Aug. 15 by the paving commission for asphalt paving in Church St. Address City Engineer Kelly.

SEYMOUR, CONN.—An appropriation of $9,000 has been made for improving the highways. Address Town Clerk Culver.

BALLSTON SPA, N. Y.—Plans and specifications are being prepared by H. M. Geer for paving Front St. with vitrified brick.

CORTLAND, N. Y.—The board of public works has decided to repair the pavement in Railroad St. and bids have been ordered advertised for. Henry C. Allen, Cy. Engr.

LITTLE FALLS, N. Y.—Hallinan Bros. have been awarded a contract for paving in Ann St. with vitrified brick, at $4,600.

NEW YORK, N. Y.—Bids are asked until Aug. 20 for 3,021 sq. yds. of granite block pavement, 4,893 sq. yds. of asphalt block pavement, 21,025 sq. yds. of asphalt pavement and 47,905 sq. ft. of flagstone sidewalks. Jas. P. Keating, Comr. of Highways, 21 Park Row.

TROY, N. Y.—Kellam & Smith have been awarded a contract for paving Oakwood Ave., at $36 .5. . E. R. Cary, Cy. Engr.

UTICA, N. Y.—The Interstate Paving Co. has been awarded a contract for asphalt paving in Oneida St., at $2,178, and in Second St., at $5,478.——Newell St. is to be paved with asphalt, and plans have been ordered prepared and bids advertised for. Address City Engineer Shultze.

JERSEY CITY, N. J.—Bids are asked until Aug. 13 for improving Sanford Pl. and North St. by excavating, paving, etc. Geo. T. Bouton, Clk. St. and Water Comrs.

VAILSBURG, N. J.—Bids are asked until Aug. 26 for street improvements, as stated in our advertising columns. Thomas Connelly, Mayor.

WEST NEW YORK, N. J.—Bids are asked until Aug. 19 for grading, flagging, curbing, guttering, etc., in 22d St. Address Francis F. Tonn.

BLOOMSBURG, PA.—The president of the council has been instructed to ask bids for paving in Main St.

FREEPORT, PA.—Sweeney & Houston, Pittsburg, have been awarded a contract for 20,000 yds. of paving with Reese-Hammond repressed brick, at $8,957.

IRWIN, PA.—W. A. Cain & Bro., Dayton, O., have been awarded a contract for 40,000 yds. of paving with Reese-Hammond repressed brick, at $50,000.

LEECHBURG, PA.—Bids are asked until Aug. 14 for paving, sewers, etc., as stated in our advertising columns. John A. Hill, Borough Secy.

BALTIMORE, MD.—Bids are asked until Aug. 14 for paving in Bayard St. with asphalt blocks. B. T. Fendall, Cy. Engr.

NEWPORT NEWS, VA.—A. A. Moss, Mayor, writes us that bonds will be voted on Aug. 13 for paving material not yet selected.

CLARKSBURG, W. VA.—Contractor Hanna has been awarded a contract for 20,000 yds. of paving with Reese-Hammond repressed brick.

NASHVILLE, TENN.—Bonds are to be issued to the amount of $100,000 each for streets and sewers.

ATHENS, O.—Bids are asked until Aug. 23 for grading, graveling, etc., 4,360 ft. of road in York. W. F. Scott, County Audr.

CINCINNATI, O.—Bids are asked until Aug. 23 for paving with brick in Gilbert Ave. George F. Holmes, Clk.

CINCINNATI, O.—Bids are asked until Aug. 31 for improving the Montgomery Road. Eugene L. Lewis, County Audr.

TOLEDO, O.—Parkwood Ave. and Nevada St. are to be paved with asphalt block.

UPPER SANDUSKY, O.—Bids are asked until Aug. 22 for grading and stoning 51,300 ft. of road in Pitt, Miffin and Marseilles townships. E. N. Halbedel, County Audr.

YOUNGSTOWN, O.—Bids are asked until Aug. 31 for the purchase of $43,010 paving bonds. Wm. I. Davis, Cy. Clk.

ANDERSON, IND.—Bids are asked until Aug. 24 for constructing the W. H. Luse gravel road at an estimated cost of $11,000. Morton H. Downey, Supt. and Engr.

INDIANAPOLIS, IND.—Bids are asked until Aug. 12 by the board of public works for paving with brick and asphalt and constructing cement sidewalks in several streets.

DETROIT, MICH.—Bids are asked until Aug. 8 by the department of public works for cedar block paving in six streets.

GRAND RAPIDS, MICH.—Harry Vander Veen has been awarded a contract for paving in North Division St. with block asphalt, at $11,920, and in Donald St., with Portland cement, at $2,000.

MUSKEGON, MICH.—John Hughes has been awarded a contract for paving in Ottawa St. with vitrified brick, at $10,682.

MOLINE, ILL.—The council has passed an ordinance providing for the paving of 15th St. with asphalt, at an estimated cost of $13,569.

PEORIA, ILL.—James S. Allen has been awarded a contract for paving with brick on South Adams St., at $2,565.——The city engineer has been instructed to prepare an estimate of the cost of paving Arcadia Ave. with asphalt.

TUSCOLA, ILL.—The council has appropriated $4,000 for paving several alleys, etc.

GREEN BAY, WIS.—Bids are asked until Aug. 26 for paving in certain streets. Address City Engineer Brauns.

KENOSHA, WIS.—It is reported that bids are wanted by the council for paving in Milwaukee Ave.

ST. PAUL, MINN.—Bids are asked until Aug. 8 for curbing and boulevarding in Ashland Ave. C. H. Bronson, Clk. Bd. Pub. Wks.

WICHITA, KAN.—The city engineer has been instructed to prepare estimates of the cost of paving in Douglas Ave. with asphalt or macadam.

DENVER, COLO.—The board of public works has created a new paving district. The streets are to be macadamized.

ST. PAUL, MINN.—Bids are asked until Aug. 12 for grading in Mount Hope Ave. C. H. Bronson, Clk. Bd.

SEATTLE, WASH.—Bids are asked until Aug. 10 for improvements in six streets. C. B. Bagley, Secy. Bd.

BERKELEY, CAL.—Bids are asked until Aug. 12 for grading in Eighth St. and Channing Way. Chas. E. Thomas, Town Clk.

RENO, NEV.—Bids are asked until Aug. 20 for grading and paving in Commercial Row. W. A. Fogg, Clk.

BOISE, IDAHO.—The county commissioners have ordered a new road to be constructed.

SILVER CITY, IDAHO.—Bids are asked until Aug. 10 for constructing a road from Silver City to Murphy. E. L. Ballard, Clk. County Comrs.

LOGAN CITY, UTAH.—Bids are asked until Aug. 15 by the recorder for laying two blocks of cement sidewalks on one side of Main St.

WINNIPEG, MAN.—Bids are asked until Aug. 8 for constructing granolithic sidewalks, macadam and asphalt pavements and sewers in certain streets. C. J. Brown, Cy. Clk.

MANUFACTURING PLANTS.

BUFFALO, N. Y.—Chas. A. Rupp has been awarded the contract for the mason work and Metz Bros. for the carpenter work on the Sidney Shepard & Co. plant at about $70,000. The building includes a warehouse, 60 × 204 ft., and a factory, 42 × 130 ft.

NEW YORK, N. Y.—Specifications are being prepared for two rolling mills and bolt and nut works, each plant to have 10 double puddling furnaces and each mill six trains of rolls, one 20-in. puddle, one 8-in., one 10-in., two 12-in. and one 16-in. finishing mill. Bids are asked at once and a bonus will be given if plants are completed by Jan. 1, 1902. Address L. care Superintendent, Union Trust Bldg., 80 Broadway.

PLAINFIELD, N. J.—George B. Naylor intends to erect a 2-story brick paint factory, 90 × 40.

BRIDESBURG, PA.—George W. Pierson has been awarded the contract for constructing two shops for the Frankford Arsenal, at $79,700.

YORK, PA.—The York Carriage Co. intends erecting a 6-story plant on North St.

BALTIMORE, MD.—Local papers state that Nicholas W. Steele, formerly Manager of the Oakland Mfg. Co., is to form a stock company to take over the old Tyson flour mill property, and to establish woolen mills there similar to the plant at Oakland. In addition to erecting two new buildings, 108 × 70 ft. and 108 × 58 ft., new machinery will be added to the present ones.

HAGERSTOWN, MD.—Collinge, Nolan & Co., Paterson, N. J., are negotiating for the reconstruction of their mill at this place, to cost about $11,000.

RICHMOND, VA.—H. A. Pitkin, Vice-Pres. American Locomotive Co., made an inspection of the plant on Aug. 1 and authorized the expenditure of $100,000 for new machinery and electrical appliances.

MOUNDVILLE, W. VA.—Bids are asked until Aug. 13 for building an addition to factory No. 2 in the West Virginia Penitentiary. C. E. Haddox, Warden.

MOBILE, ALA.—The Gulf Coast Shipbuilding & Dry Dock Co. has been incorporated at $4,000,000, and will build a shipbuilding plant, with a marine railway of 5,000 tons lifting capacity, at Alabama Port and a dry dock at New Orleans, La. Roger C. Morris is president.

HOLLY SPRINGS, MISS.—The Holly Springs Ice Factory has been incorporated, with a capital of $25,000. J. C. Tollen, W. A. Jones and A. C. Davis are interested.

CINCINNATI, O.—The Globe-Wernicke Co. is preparing to erect a 3-story addition to its factory, to cost about $175,000.

ST. LOUIS, MO.—The St. Louis Portland Cement Co. has been incorporated with a capital stock of $1,850,000. The company will start work immediately on its plant, which is to be located at Prospect Hill. Edwards Whitaker, John Scullin and S. W. Fordyce are interested. John C. Robinson will be manager.

ST. LOUIS, MO.—A building permit has been issued to Moore Bros. Carriage Co. for a new 3-story brick factory at 4900-30 McKissock Ave., to cost about $83,000.

SPOKANE, WASH.—The Northport Smelting & Refining Co. has been formed by W. B. and E. M. Heyburn. The company will take over the business of the Northport Mining & Smelting Co., which owns the Northport plant.

TACOMA, WASH.—The Pacific Engine, Pump & Machine Co. has been incorporated with a capital stock of $500,000, to manufacture engines and pumps, build cars and construct deep-water vessels. Edward Courtwright, Chas. J. Holman and R. T. Lafoon are interested.

SANTA BARBARA, CAL.—Plans are being formulated for the establishment of a plant at Carpinteria for the extraction of salt from ocean water.

MISCELLANEOUS CONTRACTS

PARK IMPROVEMENTS.—Yonkers, N. Y.—Nicola Mangini has been awarded the contract for improvements to Washington Park at $7,301.

DREDGE BOAT.—New Orleans, La.—Bids are asked until Aug. 9 for constructing a dredge boat. Hugh McCloskey, Pres. Port Commissioners.

PARKS.—Chicago, Ill.—The West, Lincoln and South Park Boards propose to establish a number of small parks in their various sections of the city.

BREAKWATER.—Parry Sound, Ont.—J. T. Davis, Montreal, and Roger Miller, Ingersoll, Ont., have been awarded the contract for constructing the breakwater at $200,000.

DRAINAGE.—Raymond, Ill.—Bids are asked until Aug. 22 for a drainage system to consist of about 17,000 ft. of 20 to 8-in. pipe, etc. J. W. Hough, Clk; J. W. Dappert, Engr., Taylorville, Ill.

RETAINING WALL.—Des Moines, Ia.—Bids are asked until Aug. 8 by the park commissioners for constructing brick retaining walls on both sides of the river from Court Ave. to Locust St.

SEA-WALL.—Hull, Mass.—Bids are asked until Aug. 13 by the harbor and land commissioners, State House, Boston, for constructing about 1,500 ft. of concrete sea-wall and about 700 ft. of spur jetties.

RIP-RAP.—Galveston, Tex.—Bids are asked until Oct. 1 for furnishing about 125,000 tons of large and small rip-rap and broken stone, as stated in our advertising columns. Capt. C. S. Riche, U. S. Engr.

STEAM LIGHTER.—Boston Mass.—The following bids were received on July 29 for constructing a steam lighter: Arthur D. Story, Essex, $20,860; Petersburg Iron Works Co., Petersburg, Va., $65,000. Capt. Harry Taylor, U. S. Engr., 7 Water St.

CONDUIT.—Washington, D. C.—Bids are asked until Aug. 15 for constructing a conduit for electric cables between the Old Post Office Dept. Bldg. and the Pension Office Bldg. E. A. Hitchcock, Secy. Dept. of Interior.

CANAL WORK.—Chicago, Ill.—Bids are asked until Sept. 3 for constructing four miles or less of the western section of the Illinois & Mississippi Canal, as stated in our advertising columns. Maj. J. H. Willard, U. S. Engr.

ENGINE.—Detroit, Mich.—Bids are asked at once on a second-hand 225-HP. Ensign Corliss type engine. Wolverine Mfg. Co.——Bids are asked at once by the Bagley Tobacco Co. for about 3,000 ft. of 16-in. industrial rail and special flat rail. Field & Hinckman, Consulting Engrs.

DRAINAGE.—Louisiana.—Bids are asked until Aug. 28 for improving the drainage in the Red River, Atchafalaya and Bayou Boeuf Levee District, as stated in our advertising columns. The work involves the excavation of about 467,000 cu. yds. of earth, mostly from existing timbered channels and flats, which are to be cleared for a width of 100 ft. each side of center of channel. J. R. Thornton, Secy. Bd. of Comrs., Alexandria, La.; F. M. Kerr, Asst. State Engr., N. O. Cotton Exchange Bldg., New Orleans.

U. S. POSSESSIONS AND CUBA

WATER-WORKS.—Hawaii.—It is stated that the Hawaiian Sugar Co., of Honolulu, H. I., will spend at once about $350,000 to develop the water supply of the Makameli River. Gay & Robinson are interested.

RAILWAY.—Hawaii.—Marston Campbell, Asst. Supt. Pub. Wks., Honolulu, has recommended the construction of the proposed Hilo & Kohala R. R. Col. W. H. Heuer, U. S. Engr., San Francisco, Cal., has let the contract for dredging Pearl Harbor, Hawaii, to Clark & Henery, of Stockton, Cal., at $100,000.

HARBOR IMPROVEMENTS.—Manila, P.I.—It is reported that the Atlantic Gulf & Pacific Co., of New York and San Francisco, Cal., submitted the only satisfactory bid to the U. S. Engineers on Aug. 1 for improving the harbor at Manila. Other bids were submitted by Linden W. Bates, of London, Eng., and the Philippine Development Co., of Manila.

FOREIGN CONTRACTS AND EXPORT NEWS

BATHS, ETC.—London, Eng.—Plans are asked until Oct. 29 for a public bathhouse and wash houses. First premium, $750. A. S. Snell, Assessor.

STEAM CRUISER.—Cairo, Egypt.—Bids are asked until Aug. 15 for constructing a steam cruiser. Address the Director-General Coast Guard Administration, Cairo.

BRICK SEWER.—Aberdeen, Scotland.—Bids are asked until Aug. 13 for constructing about 8,000 ft. of 6 ft. brick lined concrete sewer and cast-iron lined tunnel, etc. W. Dyack, Surv.

BRIDGE.—Denmark.—Bids are asked until Oct. 1 for building a bridge over the fjord of Mariages by Hadsund, etc. Address Statsbaneanlaegenes Kontor, Reventlowsgade 10, Copenhagen B.

SEWERS AND WATER-WORKS.—Monterey, Mex.—This city is reported as considering the question of water-works and a sewerage system. Juan Espero, Apartado 170, Monterey, is interested.

WATER-WORKS.—Drama, Turkey-in-Asia.—Plans for water-works for Drama are reported to have been prepared. Address H. Ex. Moustafa Refki Pasha, Governor of Drama, Smyrna, Asia Minor.

RAILWAY CARS.—India.—Reports state that the Bengal-Nagpoor Ry. Co., 132 Gresham House, London, E. C., Eng., want bids at once for about 1,000 coal trucks, as a first installment for a total of about 10,000 trucks. A. Rhind, Car Supt., Nagpur, British India.

WATER-WORKS.—Birmingham, Eng.—Reports state that the proposed new water-works for Birmingham, the water supply to be secured from Wales, will cost about $40,000,000, instead of $25,000,000. The work will probably require about two years more. Jas. Mansergh, Engr., London.

PUBLIC BUILDING.—London, Eng.—The contract for building the war office on Whitehall St. has been let by the Commissioners of H. M. Office of Works to Foster & Dicksee, at about $2,366,155. It is stated that Patman & Fotheringham, Ltd., have been awarded the contract, at $115,000, for altering the town hall buildings at Westminster.

MINING.—Russia.—Prof. Geo. A. Treadwell, M. E., Hotel Waldorf-Astoria, New York, N. Y., and Paul Annasoff, of the Trans-Siberian Ry., St. Petersburg, Russia, have returned to the U. S. from a trip through the South Ural Mountains. It is stated that they have secured concessions for gold mines in the Ural Mountains near Irkutsk, covering 1,100 sq. miles. The concessionaires have paid $800,000 for the tract and are to pay 4% on all the gold produced. Prof. Treadwell will leave for Russia in October to decide upon the machinery wanted, most of which will be purchased in the U. S. A company with a capital of $25,000,000 will be formed at once. U. S. Senator W. A. Clark, of Helena, Mont., is interested only in sub-concessions in the Ural Mountains. W. S. Logan, 27 William St., New York, is also interested.

MACHINERY.—Spain.—J. F. Villalta, Puertaferrisa 7 and 9, Barcelona, Spain, an importer of American machinery exclusively, writes us that he wants prices, discounts, terms, etc., for machinery for making 5,000 lbs. of chocolate a day. There will be wanted a refrigerating plant. Give gross and net weights, cubic measurements, etc. Prices on power presses for making silver table cutlery, etc., are also wanted. M. Villalta states that he is constantly receiving inquiries for mining machinery, tools, drum hoisting engines, boilers, engines of 3 to 50 HP., horizontal type, mail wagons, trucks, wheels for same, etc. He suggests that catalogues, terms, etc., be sent him. M. Villalta also writes us that he has secured space at the Exposition de Carbones y Maquinaria para Minas for exhibiting American mining machinery, and he would like to correspond with firms wishing to trade with Spain. Considerable new work in the development of mines is now in progress. Cable codes used, Lieber's, A. B. C., Atlantic & Commercial and Siegers. Shipping agents, Alfred H. Post & Co., Produce Exchange Bldg., New York.

INDUSTRIAL NOTES.

THE BALDWIN LOCOMOTIVE WORKS, Philadelphia, is shipping this week 23 locomotives for the government railways of New Zealand.

THE LIMA LOCOMOTIVE & MACHINE CO., Lima, O., has built two Shay geared locomotives for the Guayaquil & Quito Ry., in Ecuador, South America.